Technical and Bibliographic Notes / Notes techniques et bibliographiques

L'Institut a microfilmé le meilleur exemplaire qu'il

lui a été possible de se procurer. Les détails de cet

exemplaire qui sont peut-être uniques du point de vue

The Institute has attempted to obtain the best original

copy available for filming. Features of this copy which

may be bibliographically unique, which may alter any

of the images in the reproduction, or which may bibliographique, qui peuvent modifier une image significantly change the usual method of filming, are reproduite, ou qui peuvent exiger une modification checked below. dans la méthode normale de filmage sont indiqués ci-dessous. Coloured covers/ Coloured pages/ Couverture de couleur Pages de couleur Covers damaged/ Pages damaged/ Couverture endommagée Pages endommagées Covers restored and/or laminated/ Pages restored and/or laminated/ Couverture restaurée et/ou pelliculée Pages restaurées et/ou pelliculées Cover title missing/ Pages discoloured, stained or foxed/ Le titre de couverture manque Pages décolorées, tachetées ou piquées Coloured maps/ Pages detached/ Cartes géographiques en couleur Pages détachées Coloured ink (i.e. other than blue or black)/ Showthrough/ Encre de couleur (i.e. autre que bleue ou noire) Transparence Coloured plates and/or illustrations/ Quality of print varies/ Planches et/ou illustrations en couleur Qualité inégale de l'impression Bound with other material/ Continuous pagination/ Relié avec d'autres documents Pagination continue Tight binding may cause shadows or distortion Includes index(es)/ along interior margin/ Comprend un (des) index La reliure serrée peut causer de l'ombre ou de la distorsion le long de la marge intérieure Title on header taken from:/ Le titre de l'en-tête provient: Blank leaves added during restoration may appear within the text. Whenever possible, these have Title page of issue/ been omitted from filming/ Page de titre de la livraison Il se peut que certaines pages blanches ajoutées lors d'une restauration apparaissent dans le texte, Caption of issue/ mais, lorsque cela était possible, ces pages n'ont Titre de départ de la livraison pas été filmées. Masthead/ Générique (périodiques) de la livraison Additional comments:/ Commentaires supplémentaires: This item is filmed at the reduction ratio checked below/ Ce document est filmé au taux de réduction indiqué ci-dessous. 10X 14X 18X 22X 26X 30 X 12X 16X 20X 24X 28X 32 X

ORONTO



Vol. 28.

TORONTO. SEPTEMBER 21. 1894.

No. 6.

. . ESTABLISHED FIFTY-FIVE YEARS

SON THEO. H. EATON & WINDSOR, ONT.

Importers and Manufacturors

Dyewoods, Dyeing Drugs ACIDS

PURE DYEWOOD EXTRACTS CHEMICALS, ALKALI, ETC.

Sole Agents for THE CROWN ANILINE DYES, ALIZARINES, ETC



On Cotton or Mixed Goods-ONE DIP

A new color just brought out by the Farben, Fabriken vorm F. Bayer & Co.

Dominion Dyewood & Chemical Co. .. TORONTO ...

Eole Agents for Canada,

TO MANUFACTURERS

BUY ONLY-

Star Dixon's Rivet LEATHER BELTING

It is Unrivalled for Durability First, in Efficiency

Last, in Wearing Out

.THE..

F.E.Dixon Belting Co. (LIMITED)

70 King Street East - TORONTO

WRITE FOR DISCOUNTS

CO., C. McLAREN BELTING

TORONTO and MONTREAL

STICK FAST.



PREVENTS SLIPPING

INCREASES POWER GIVES STEADY AND REQULAR MOTION KEEPS BELTS PLIABLE AND STRONG

Beits protected by Stick Fast

HORACE R. RIDOUT

22 JOHN STREET, MONTREAL

Sole Mufr. for Dominion.

Send for Circular, Testimonials and Sample



WAREHOUSE & TORONTO

JOHN BERTRAM & SONS Canada Tool Works

DUNDAS, ONT.

See Advertisement on Page

P. DUNN, Manufacturer COTE ST. PAUL.



All kinds of Wire Staples and Suspender Rings

Ridout & Maybee

J.C. RIDOUT, (Late C. E.) Barrister, Solicitor, Etc.

Solicitors of and Experts in Pamphlet on Patents Sent Free

103 Bay Street, Toranto.

PATENTS

PATENT

Rock Emery Millstones

Made of BLOCKS of Emery usually set in bronze.

DURABLE.

Because Emery is HARDER than anything except the Diamond.

RAPID GRINDERS.

Because Emery CUTS all substances with unexampled rapidity and the Emery face never GLAZES; also, because they run so CONTINUOUSLY, requiring little attention.



ECONOMICAL.

Because not expensive, and they last as much longer than other stones as they surpass them in HARDNESS, and because they soon SAVE their COST in DRESSING, the EMERY FACE never requiring it--Always Sharp.

Our \$400 YERTICAL MILL Frame with Rock Emery Milistones will do More Work than any \$2,000 Iron Mill and at much less cost.

Send for Circular to

STURTEVANT MILL COMPANY, Boston, Mass.



Stone and Ore Crushers

(Blake-Moredon) Ururhers, sizes 10x1 to 35x13

The "GRIFFIN MILL" Hoisting Enginer, Power Plants and . . BOILERS . .

Correspondence Solicited

The JENCKES MACHINE M.

SHERBROOKE, QUE. Montreal Branch: 16 Victoria Square.

.. WE ПANUFACTURE...

FOR NOTHING

But hard work, and having had twenty years experience we know how to get steam out of

Dye Houses and the largest possible product from Dry Rooms

OUR COMPOUND WHEEL is the most powerful in the world, and if we can't oe of actual value to you've don't want your money. No CUSTOMS DUTIES on our Fans.

Send for Circular Barney Ventilating Fan Co., 54 Oliver St., Boston, Mass., U.S.

McLaughlin Bros. Teasels Skaneateles Falls. N. Y.

Business Established in 1832.

NOTICE
NOTICE IS HEREBY GIVEN on person, who may desire to manufacture an improvement in Car Brakes, for which critical letters patent of the Dominion of anda were granted to me, on July 15th, who wit patent numbers 39,365, that I am prepared to grant licenses upon reasonable terms under the said patent, and to otherwise the said patent invention in possession on the public in accordance with law. J. J. Cassider, Canada Life Building, Toronto.



THE

GRIFFIN

The Only Perfect Pulverizer of all Refractory Substances.

Will work either wet or dry, and deliver a finished produ Capacity, 3 to 4 tons per hour on Phosphate Rock; 112. tons per hour on Portland Cement, Quartz, or Ores, depening on hardness of material to be pulverized and fineness product. Grinds from 30 to 250 Mesh with equal facili-

AT SYITISON TOTALD DIVINA THANS NO CIDIN JAAL RIDWAND DINCHIND IN BLANKING DIN MATERIAL. MINIMUM POWER PRODUCES MAXIMUM AMOUNT OF PRODUCT. IT IS ABSOLUTELY .. ANTEED IN EVERY RESPECT, DOTH AS TO CONSTRUCTION AND CAPACITY. FIRST COST, WEAR. OPERATING EXPENSE MICH LIES THAN STAMP MILE. LARGE NUMBER OF MILLS IN USE OF FERENT MATERIALE WITH POSITIVE EUCCESS IN EVERY INSTANCE.

> Correspondence solicited, and illustrated descriptive pamphlet furnished on application to

BRADLEY PULVERIZER 92 STATE STREET, BOSTON. CO.,



Ďurabio

COPYING & REPORTING EXECUTED PROMPTLY.

ATAttention of Manufacturers called to our process for Dupl cating Letters, Circulars, etc., either in long hand or type writing.

GEORGE BENGOUGH

45 Adelaide Street East.

. . Telaphone 1207

Church, School and Office Furnishings, Business and Library Books, Office Chairs, Revolving Book Cases



Shannon Letter Filing Cabinets TRAPID ROLLER COPIERS

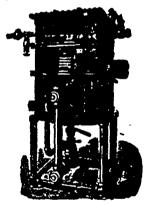
Schlicht's Standard Ledger Index All Kinds Labor-Saving Office Devices.

OFFICE SPECIALTY N'F'G. GU.

IN METALLIC VAULT FURNITURE WE LEAD.

Write us for Catalogues of our goods.

State your needs



The Economizing of Fuel and Water...

IN ANY STEAM PLANT MEANS SIMP! / ADD ED EARNING POWER, AND THIS WE GUARANTEE WITH ..

The Webster Vacuum Feed Water Heater and Purifier . . .

Recent orders received for Webster Heaters, Steam Separa-tors and Oll Extractors

Halifax Cas and Light Co., Halifax, N.S., 1 250 Horse Power Heater. Ceneral Mining Co., Cape Braton, : Montreal Warehousing Co., Montreal, J. Barsalow Co., Montreal : : 1 300 ** 44 44 1 125 46 66 1 125 Robin & Badler, 46 " 1 45 Acadia Coal Co., Stellarton, 1 7 Horse Power Oil Extractor, and 1 4 Horse Power Live Steam Separator.

... DARLING BROTHERS...

Sole Manufacturers for Canada

"Reliance Works" MONTREAL

HARD-MOUTHED

AND PULLERS CONTROLLED WITH ABSOLUTE EASE. RUNAWAYS IMPOSSIBLE.

This statement is now repeated by thousands who have purchased

AUTOMATIC SAFETY This Bit, by an automatic device, closes the horse's nestrils.



HE CANNOT BRETHE, AND MUST STOP. Any horse is liable to run, and should be driven with it. By its use ladies and children drive horses men could not hold with the old style bits.

Send for illustrated pamphlet containing testimonials from all parts of the world, and carnest and candid expressions about the BRITT AUTO-

in subduing the most vicious horses and controlling the most stubborn pullers and

The only bit in the world that is endorsed, advocated, used and sold by the Society for the Prevention of Cruelty to Animals, The Highest Authority.

Dr. L. P. Britt. 37 College Place, New York.

The Wellington Mills

LONDON, ENGLAND.

GENUINE EMERY...

OAKEY'S Fiexible Twilled Emery Cloth. OAKEY'S Flint Paper and Class Paper. OAKEY'S Emery Paper, Black Lead, etc.

Prize Model and Highest Award Philadelphia 1876, for Superiority of Quality, Skillful Manufacture, Sharpness, Durability and Uniformity of Grain.

NANUFACTURERS:

JOHN OAKEY & SONS, Ltd. Wellington Mills, Westminster Bridge Road London, Eng. :

Enquiries should be addressed to

JOHN FORMAN. 650 Craig St., Montreal.

Manufasturwand Capitalists Patent Acts of 1872, and Amendments, Section 22.

NOTICE is hereby given to all persons desirous of practising the invention in the manufacture of Aluminum and Alloys thereof, for which certain letters patent of the Dominion of Canada were granted on Jule 7th, 1820, to Chas. Martin Hall, axignor to the Pittsburg Reduction Co., to wit. Nos. 31, 512, 31,513, 31,514, 31,515, 31,516, 31,517, and also the invention in aluminum alloys and manufacture thereof, for which certain letters patent of the Dominion of Canada were granted on July 20th, 1822, to John W. Langley, assignor to the Pittsburg Reduction Company, to wit, No. 32,622 that the undersigned is propared to grant ilconses upon reasonable terms under each and all of same letters patent, and otherwise place the patent inventions in possession of the public inaccordance with the provisions of the above recited act.

Communications to the underzigned may be addressed to 701 Ferguson Bullding, Pit.: burg, Pa., U.S. A.

(Scd) The Pittsburg Reduction Ile.

(Sgd) The Pittsburg Reduction Co.

A. T. Paterson & Co. **MERCHANTS**

35 St. François Xavier St. MONTREAL

REPRESENTED BY .. MR. DAVID CUTHRIE

ROOT & CO... Camel Hair, Nells & Tope F. O. GAULKE & CO. . . Worsted and Mehair Fancy Yarne Parayian Lot-ten.

IMPERIAL BANK OF CANADA

Danital Authorized | Danital Pald-up | | 1,182,282

DIRECTORS:

Wm. Rammay, Hon. John Ferguson, Robt. Jaffray, Hugh Ryas, T. Sutherland Stayner. D. R. WILKIR, Cachier, R. Jenninge, Amet. Cachier, E. HAY, Inspector

Head Office, - TORONTO.

HRANCHES IN ONTARIO:

Racex Nigara Falls St. Thomas
Fergus : Port Culber Le
Galt St. Catherines Sault St. Mario
Br. Catherines Welland
Teronto, cor. Wellington St. and Leader Lane
cor. Yonge and Cucen Streets

" cor. Yonge and bloor Streets

BRANCHES IN NORTH-WEST:

Brandon Portage la Prairie Prince Albert Edmonton

Drafts on New York and Stering Exchange bought and sold. Deposite received and Interestationed,

Prompt attention paid to collections Municipal Bonds and Deboutures bought and sold.

Agents in Canada for 'Cheque Bonk, Ltd."

Agents London, Erg., "Lleyd's Bank, Ltd."
72 Lombard St., E. C., with whom depodurzay
be made for credit with Head Office or
Branches.



argest Manufacturers of STEEL and BRASS STAMPS in Canada

PRITCHARD & ANDREWS

OTTAWA, ONT.

Rubber Stamps: Stencils, Seals, Etc.

Send for Prices.



LEATHER . BELTING

Telephone 2000

BEST

MCARTHUR.

Manufacturers and Importers

310-316 St. Paul Street AND

147-151 Commissioners Street MONTREAL

OFFER AT CLOSEST PRICES

Pure Olive Oil. Winter Preseed Lard Oil, Extra Fine Spindle Oil and a Full Assortment of Other Lubricating Olls. Greaces, Mill Scape, etc. Also Chemicals, Dye Stuffs, Dye Woods. Extraots. etc.

SOLE ACENTS IN CANADA FOR

St. Denis Dyestuit and Chemical Co. PANIB.

A. POIRRIER . PRESIDENT.

Aniline Colors, Archil Extract, Cachon de Laval, Ric.

BRITISH ALIZARINE CO. LONDON Paste and Dry Alizarine

Stamford M'fg Co., New York, Dyewoods and Extracta

COICNET & CO., PARIS Giues, Gelatines, Etc.

Walson, Walker & Quickled, Loods - indigo Extracts

MILLERTON. TANKIN EXTRACT CO. Hemlock. Extract

Malatainflarge Books full yeasorted, and will aways be pleased to furnish quotations and camples.

NORTHEY

.. TORONTO..

Duplex and Single Steam and Power





ESTABLISHED IN 1880.

PUBLISHED ON THE FIRST AND THIRD FRIDAYS OF EACH MONTH

13 Canadian Manufacturer Publishing Company, 1td.

Room 66 Canada Life Building, King St. W., Toronto.

FREDERIC NICHOLLS, - President and Treas.

J. J. CASSIDEY, - - - Vice-Pres. and Editor.

J. C. GARDNER, - - - Managing Director.

GEO. F. MADDEN, - - - Secretary.

L. M. PINOLET, Montreal - Representative in Province of Quebec, J. B. DENBROEDER, 416 Exchange Building, Boston, Mass., Representative in Now England States.

SUBSCRIPTION

\$1.00 par year.

ADVERTISING RATES SENT ON APILICATION.

OFFICERS OF

THE CANADIAN MANUFACTURERS' ASSOCIATION

President	-	-	-	W. H. LAW.
First Vice-President	-	-	•	GEO. E. DRUMMOND.
Second Vice-P sident	-	-	-	WILLIAM CHAPLIN.
Treasurer	-	-	-	George Вооти.
Chairman Executive Co			-	FREDERIC NICHOLES.
Chairman Tariff Comm	nitte	'e' -	-	R. W. Elliot.
Secretary	-	_	-	J. J. Cassidev.
SICRETARY'S OFFICE:	Can	ada 1	16. 1	

WOOLEN MANUFACTURERS' ASSOCIATION

President •	-	•	-	-	B. Rosamond, M. P.
Vice-President	-	-	-	-	Jas. Kendry.
Secretary •	•	-	•	-	J. J. Cassidey.

KNIT COODS MANUFACTURERS' ASSOCIATION

President -	•	-	JOHN PENMAN.
Vice-President	-	•	J. Hewton.
Secretary -	-	-	J. J. Cassidey.

CARPET MANUFACTURERS' ASSOCIATION

President -	-	-	James-P. Murray.
Vice-President	-	•	ROBERT DODDS.
Secretary -	-	-	J. J. Cassidey.

GLOVE MANUFACTURERS' ASSOCIATION

President	•	-	-	-	-	W. H. STOREY.
First Vice-			-	•	-	JOHN MACLAREN.
Second Vice	-Pres	sident	-	•	•	A. R. CLARKE.
Secretary	•	•	-	-	•	J. J. Cassidey.

REPRESENTATIVES TO

TORONTO INDUSTRIAL EXHIBITION ASSOCIATION

R. W. ELLIOT. GEORGE BOOTH.
W. K. McNaught. Samuel May.
J. J. Cassidey.

THE TORONTO FAIR.

The Toronto Globe a few days previous to the recent Toronto Industrial Exhibition and alluding to those who are interested in its success and who have drawn upon their experience and invention for new attractions to be shown there, says:—

One suggestion which is in line with the distinctive name "Industrial" is the extension of the feature of processes of manufacture. The Fair has come to take the form not only of a show but of a mart, and manufacturers

look forward to it as an opportunity for greatly increasing their fall sales. There is no reason why an exhibit which answers this purpose should not be also an attractive feature of the exhibition; but there is one mode of exhibiting manufactures which is decidedly lacking in interest; we mean a pile of boots and shoes, furniture, groceries, clothing or carpets, such as may be seen any day in the window of a Yonge street shop. To a powerful imagination a table or chair may produce on the mind images of the workshop, the sawmill, the stream down which the logs were floated and the great snow-bound woods where the trees were felled. But the ordinary mind must be stimulated by the actual seeing of these processes. Some of them could be shown in a small space, and certainly a common kitchen in the making would draw more sightseers than the finest array of the finished product.

Though Canada does not rank as a great manufacturing country, it possesses many industries which would lend themselves to a display of this kind without necessitating great expense or space. It would not do to lay down a cast-iron rule that every exhibitor must show some part cothe manufacturing process, but to those who are willing to increase the attractiveness of the Fair in this respect some additional inducement in the way of space, location, etc., might be offered. If steps were taken to educate exhibitors up to this idea in the present year, a further advance might be made in 1895, when it is proposed to give the fair the character of a Dominion Exhibition.

It is pleasurable to know that, as regards those features of the Toronto Fair where displays of manufactures are most notable, the management are displaying very commendable zeal in lifting the concern out of the ruts into which it has been sticking, and, as the Globe suggests, bringing it into greater harmony with its distinctive name "Industrial." We suppose, however, that the Globe has reference to the exhibits heretofore displayed in the Main Building, which have always presented the appearance of a bazaar for the sale of merchandise rather than a display of Canadian manufactured products. The management seem to think that the Fair should include this bazaar feature, for obvious reasons: but the difficulty has heretofore been to separate the two features and not have both of them present in the same building. The presence of both these features in close proximity to each other in the same building have proved objectionable to exhibitors in both classes, and have frequently produced situations that require much good judgment and forbearance to prevent becoming very embarrassing. Thus where an exhibitor had paid money for the privilege of displaying and selling goods, and finding his business interfered with by the noise and clatter of machines in operation in his immediate vicinity, he naturally felt aggrieved, and desired that what he deemed a nuisance be abated. So, too, where a manufacturer had been put to much trouble and expense to bring machinery from his factory, being assigned space wherein to set it up in the vicinity of the other party, bringing in materials and operatives whereby he might show a most interesting and instructive process of manufacture, and where people seeking information regarding the industry there illustrated might desire to witness the same, it is not conducive to the amiability of the exhibiting manufacturer to find his spectators annoyed by the pushing, surging and rushing of crowds of idle people, whose great object might be to obtain a picture advertising card, a bit of chewing gum or a half ounce sample of soap of supposed miraculous merit. It is annoying to a manufacturer to exhibit under such circumstances, but exceedingly more so when the bazaar party complains against him; the natural tendency being for the manufacturer to conclude that if he is not to be allowed to operate the machinery he was so urgently invited to exhibit, even if a noise and clatter is made, he had better save himself his time, trouble and expense by remaining away. Admitting the necessity for the bazaar feature of the Fair, it would be well if that character of displays should be confined to some particular building or buildings, and on no account be allowed to become a feature in any building where machinery is shown.

We are aware, however, that the management of the Fair quite fully appreciate the force of the objectionable features here alluded to, and that they are steadily moving in a direction to where the arrangement will be more satisfactory than it now is. It was impossible that all the changes, alterations and improvements aimed at and intended to be accomplished, could be effected at one time; and to the management these features of improvement which they deemed of most pressing importance were the ones which they have accomplished. The growing importance of the Fair and the large attendance of visitors, becoming larger and larger each year, demanded that the old Grand Stand, that was quite sufficient for its purpose when it was built, but which had been found to be entirely too small for the purpose of late years, should give way to a better and more commodious structure, and now, at large expense, we have a Grand Stand capable of comfortably accommodating many thousand spectators, facing a race track than which, there is none better on the continent. So, too, the old stables, cattle sheds, swine and sheep pens, etc., were found entirely too small and antiquated for present purposes, and at large expense the grounds are now equipped with buildings and accommodations of this description which are unsurpassed, and among which it is a delight for visitors to meander and observe the high character of the live stock products of All these improvements were absolutely the country. essential to the continued success of the Fair, and the management have shown much energy and judgment in

In the meantime but little change or alteration has been made in those buildings devoted to exhibits of manufactured products, to machinery, and to methods of manufacture. None of these old buildings have been replaced with new, and none of them are entirely suitable now for the purposes for which they are used; and this fact is more apparent probably in Machinery Hall than in any other A badly arranged building in the first place, it is entirely inadequate for the proper display of machinery, and without capacity to accommodate half of what would otherwise be exhibited there. In fact neither Machinery Hall nor any other building on the grounds has capacity, or is in condition to hold such displays as carpet looms, cloth looms, spinning frames, shoe making machinery, broom making machinery, etc., in full operation and turning but their respective products. It is displays of this character that afford the most valuable instruction and entertainment to spectators; and it would be well for the management of the Fair to encourage manufacturers in making

We are informed that, now that the other improvements alluded to have been completed, energetic attention is to

be directed to making the buildings devoted to manufactures what they should be, the probability being that the first move will be to either remodel the present Machinety Hall or to erect a new one. Some who understand the matter say that no alteration in the present structure can make it conform to the requirements of such a building that the present that the present one might be made to answer the purpose of an annex to what ought to be a large building with heavy foundations for machinery and to support a second floor upon which lighter machinery might be located, while heavy displays, such as iron working machinery, steam engines, heavy dynamos, power pumps, stamping machinery, etc., might be placed on the ground floor is to be hoped that whenever the Exhibition management are ready to proceed with any such improvement they will considerately correct. considerately consult the manufacturers of such machinery, and thus learn what the size and shape such building should be, and how it should be equipped. manufacturers are in full sympathy and accord with the Fair Association, and will in the future, in the past, do all in their power to make the Toronto Fair a grand success. a grand success.

EDITORIAL NOTES.

Re the Convention in Montreal of the Canadian Electrical cal Association on Wednesday, Thursday and Friday a this week, lack of space prevents our giving more than a brief notice. After the opening of the Convention the Wednesday, and the transaction of general business, following papers were read: following papers were read:—The Application of Electricity for Medical and III. ity for Medical and Kindred Purposes, from Light and Power Circuits. by W R Share Sh Power Circuits, by W. B. Shaw, Montreal; Electrolysis, by J. A. Baylis, Toronto, and Alexandreal; by J. A. Baylis, Toronto, and Alternating Motors, by M. Pinolet Montreal M. Pinolet, Montreal, of the staff of the Canadian Many, FACTURER. On Thursday, Electric Brakes, by E. A. Sperry, Cleveland, Ohio A. A. S. Cleveland, Ohio A. S. C Cleveland, Ohio; A Method of Distribution with Equalization of Potential Differential Differenti tion of Potential Difference, by D. H. Keeley, Ottawa; The Possibility of Securing Better Regulation at Light and Power Stations by Accump Light and Power Stations by Means of Fly Wheel Accumulators of Improved Control Light and Power Stations by Means of Fly Wheel Action ulators of Improved Construction, by John Galt, On onto, and also a paper by John Langton, Toronto. Friday, Municipal Electric Lighting, by E. C. Breithaupt, Parling Out of Theorem 2019 Berlin, Ont.; Telephone Cables, their Construction and Maintenance, by F. J. Schwartz, Montreal, and also paper by T. R. Rosebrugh, of Toronto. The following officers were elected for the annuired. officers were elected for the ensuing year :-

President—K. J. Dunstan, Toronto.
First Vice-President—A. B. Smith, Toronto.
Second Vice-President—J. Berkeley Powell, Ottawa.
Secretary-Treasurer—C. H. Mortimer, Toronto.
Executive Committee—Geo. Black, Hamilton; T. R.
Breithaupt, Berlin; L. B. McFarlane, Montreal; T. R.
Breithaupt, Toronto; John Yule, Guelph; O. Higman, Rosebrugh, Toronto; John Yule, Guelph; O. Higman, Mortottawa; J. W. Taylor, Peterborough; D. A. Starr, ortonto.
real; J. J.Wright, Toronto, and J. A. Kammerer, Toronto.

An inspection of the pages of this journal will disclose the fact that about all our available space for reading matter has been devoted to brief mentions of exhibits of chines, machinery and manufactures at the recent Toronto chines, machinery and manufactures at the recent Toronto Fair. Without doubt these exhibits were more numerous than on any previous occasion; and the hundreds of therein alluded to afford some idea of the extent and sity of the manufacturing industries of Canada. And although we have given so much space to notices of allude exhibits, we find that we are unable to even briefly to all of them, it being necessary to hold over for our next to all of them, it being necessary to hold over for our fines most interesting and important displays made at the most interesting and important displays made at the and—we refer to the stoves, ranges, furnaces, radiators, such the factors and cooking apparatus displayed in the Stove other heating and cooking apparatus displayed in the Building and elsewhere, and the pianos, organs, and music alinstruments in Music Building and other places.

Industrial Exhibition. The

The Toronto Industrial Exhibition which came to a close last week after the most prosperous season ever enjoyed by it, will long be remembered by all whose pleasure it was to attend it. The importance of this institution increases year by year, and it has long since out-grown its local or even provincial character, and it may now be fairly claimed for it that it is of national character. In support of this claim it is shown that every province and section of Canada, from the Atlantic to the Pacific—from Nova Scotia to British Columbia, had lantic to the Facine—non Nova Scotta to British Columbia, had displays of some character upon the grounds, all going to show importance of the particular industries represented by them. The displays of manufactures and of machinery were fully up to the standard of any previous year, in fact better than ever before; and herewith is given brief descriptions of the most important of them.

No charge made for these notices.

JOHN BERTRAM & SONS,

Proprietors of the Canada Tool Works, Dundas, Ont, showed in Machinery Hall quite a number of the iron-working machines manufactured by them, included in which were two iron planers, the dimenfactured by them, included in which were two iron planers, the dimensions of which were each 8 feet by 30 inches by 30 inches. These planers represent the style of the Bertram improved machine with patent drive and feed motion, and of which all sizes are made. The first motion is by a worm and tangent gear; the racks and all wheels being machine cut. The loose pulleys run on bronze sleeve instead of the shelf. A 16 inch angine laths user also shown a class to a standard of the shelf. the shaft. A 16-inch engine lathe was also shown; also two 24-inch the shatt. A ro-inch engine fathe was also snown; also two 24-inch lathes, two milling machines, two acme bolt-cutters, one double table shaper, and a 20-inch lever drilling machine.

Messes. Bertram & Sons made a fine display of iron working machinery at the Chicago World's Fair, the award signed by the judges

being as follows:

The Iron Planing Machine is so constructed that it can be placed in line with the driving shaft, thus economizing room in the shop. The muchine is driven by a worm gearing, with high belt velocity, the return of the table being tour times the speed of the cutting. The arrangement of the mechanism for the positive feed motion is very ingenious. The motion is transmitted from pawl and Ratchet-wheel by a pinion quadrant and bell crank to feed rack; power being only required at either end of the stroke, and when the machine is not cutting. The cross and vertical feeds are operated by interchangeable ratchet box.

The large engine lathe is similar in construction to the general The large engine lathe is similar in construction to the general forms. The leading screw is placed at the rear of the machine and the feed rod in front. Each is driven separately or together as desired. The nut for engaging the leading screw is operated from the front of the saddle, and alt the feeds have separate binders. The saddle has an eccentric lock for use in operating the cross feed. The iron shaping machine is new in form, the construction being such as to admit of a long shaft being splined on at any point by passing the shaft through the frame. The ram can be set at any cutting point while in motion.

poin' while in motion.

The drilling machine is of general type. The column and frame are cast in one piece with strong and firm backing, giving great rigidity to the machine.

These machines represent advanced and progressive development in design, construction and the arrangement of details. The workmanship is superior, and the planing and shaping machines show improvement

HEESON GRATE BAR CO.,

Toronto, displayed a specimen of their Heeson improved rocking furnace grate in Machi ery Hall. The construction of this grate may be made to conform to ad kinds of heating furnaces, a great advantage of its use being that fully ten per cent, of fuel is saved, or its equivalent in increased steaming capacity of boilers. Some of the largest steam plants in the country are equipped with the Heeson grate. Mr. H. A. Massey, of the Massey-Harris Company, Toronto, gives his opinion of this grate as follows: — I am asked my opinion as to the benefits of The Heeson grate bars over others that I have used and have had the opportunity of investigating. I have much pleasure in stating that as far as I have been able to judge, I consider this grate bar superior to any other that I know of. Having one in use I am confident that there is a saving of at least 15 per cent, in fuel over and above the ordinary grates, and I have no hesitation in recommending it.

ROBIN & SADLER.

Robin & Sadler, manufacturers of leather belting, lace leather locm straps, etc., whose head office is at 25.8 Notre Dame St., Montreal, and branch office at 129 Bay St., Teronto, made a fine exhibit in Machinery Hall, showing specimens of dynamo belting, of which they make a specialty. They tan their own leather and have increased their trade very much during the last few years.

No charge made for these notices.

LANCASTER MACHINE WORKS,

Lancaster, Ont., had on exhibition in Machinery Hall one of their improved hydraulic lifting jac's which excited much attention, and which seemed to do all that was claimed for it.

SMALL & FISHER.

Woodstock, N. B., had one of their new patent shingle cutting machines on exhibition in sachinery Hall. This machine embedies some new applications of motion to effect the purpose desired, the simplicity of them being a strong recommendation, action and can be controlled without difficulty. It is automatic in its

STEVENS, HAMILTON & CO.,

Galt, Ont., exhibited a number of their iron working machines in Machinery Hall, the most noticeable of which was their new go-inch radial drift.

radial drill.

The principal advantage of a radial drilling machine is in being able to move the drill to the work. This makes a great saving of time on heavy and large pieces. This machine having a round column enables the arm to be swung entirely around it, permitting an extra wing on base, on which to support the table, leaving the main part of base always clear for the bolting of work. This is a great advantage over radial drills which will only swing about half a circle, and on which the table has to be lifted on and off the base as required. The arm is raised and lowered by power, the spindle is counter-halanced, and is raised and lowered by power, the spindle is counter-balanced, and has a quick return movement, is provided with back gears, hand and power feed, all in easy reach of the operator. The head is moved rapidly along the arm by rack and pinion. The spindle is driven by rapidly along the arm by rack and pinion. The spindle is driven by an endless belt in such a manner that no matter where the head is the belt is the same tension. There is also provision for taking up the usual stretch of the belt instead of re-lacing. The spindle, which is always in two bearings, has a socket the outside of which is the same diameter. This can be taken out, enabling the drill to go up into the head, thereby increasing the capacity of the machine. This machine is particularly adapted for tapping holes, which is accomplished by friction pulleys on the counter-shaft, one running in 'he opposite direction to the other. The cap on top of column which arries the weight of arm has anti-friction rollers inside and turns very easy. This arrangement enables the column to be made fin. to the This arrangement enables the column to be made fin to the

base which makes a stiffer machine than if column turned.

Other machines shown by this concern were an iron lathe, five upright drilling machines, and a shaper with back gear, self-feeding with tapping attachment.

THE DODGE WOOD SPLIT PULLEY CO.,

Toronto, made a very fine display of their patent wood split pulleys in Machinery Hall, also numerous special pulleys of different designs. Their exhibit was very tastefully arranged. Several pyramids of pulleys ranging in size from many feet down to a few inches were to pulleys ranging in size from many feet down to a tew inches were to be seen showing the extensiveness of the stock carried by this Company. There were also several pulleys of large diameter and narrow face, such as are in much demand for electrical purposes, shown running at a high speed demonstrating their perfect balance. Some very landsome, cone pulleys, tight and loose pulleys, paper pulleys, special dynamo pulleys, heavy wood pulleys for saw mills, light iron centre pulleys for cotton mills, in fact belt pulleys suitable for all purposes were plentifully shown. The motion supplicate for the running of pulleys and page the pulleys for company's natery western of were plentifully shown. The motion supplied for the running of pulleys was a very neat illustration of the company's patent system of rope transmission of power, driving a shaft at right angles to the main

shaft.

The Dody Tompany have made very rapid strices in their business, their works acting now a capacity of 200 pulleys per day. They have many of the leading mills in the country as patrons, and have been particularly successful among the large saw mills where the Dodge belt pulley and Dodge system of rope driving has become almost a necessity. In addition to the Company's large Canadian trade they have a very extensive foreign export trade, and when it is known that complete stocks of the Dodge patent pulleys are carried in over 60 cities in Furone an idea of their progress may be had. in over 60 cities in Europe an idea of their progress may be had.

The Dodge wood split pulley is carried in stock in all the principal towns and cities of Canada; and users of power should have no difficulty in promptly procuring a good pulley when desired.

They now have recently completed for the Gilmour Company

of work which, they say, eclipses anything of the kind, yet attempted in America. The transmission of some 400 horse power across a half mile of rough country.

They have recently supplied for the Montreal Cotton Company's mill at Valleyfield, (ae., some very large pulleys, the largest of which are 168x38 inches, 144x20 inches, 110x38 inches, 96x20 inches. These are made with heavy iron split centres, and maple r'ms, and are probably the largest pulleys of this kind yet produced in Canada. They have also made for the same Company a very large rope drive for conveying power to their new mill just completed.

DOBSON EUREKA FLOUR DRESSER.

Alex. Dobson, Beaverton, Ont., exhibited this dresser in Machinery Hall, attracting much attention from flour millers. It embodies three inside agitators giving large capacity. No inside brushes are used. The dimensions of the frame of this machine are: height, 3 ft. 10 in.; width, 2 ft. 10 in.; length, 9 ft. 6 in.. length of driving shaft, 11 ft.

THE F.E. DIXON BELTING CO.,

Toronto, had specimens of their belts in use on machines in operation, in Machinery Hall and elsewhere about the grounds, the transmission of power from some of the largest steam engines in use there being by the well-known Dixon belts. This fact was also very noticeable in the driving of dynamos, and the conveying of power from electric motors. The concern also displayed a belt stretcher that was quite fully appreciated by machinery users.

CANADIAN MINERAL WOOL CO.,

Toronto, displayed a full line of their products in Machinery Hall, including pipe covering, loose wool for deadening walls and ceilings, covering for furnaces, etc., also specimens of the blast furnace slag from which these goods are made.

This Company have but recently completed the construction of works in Toronto for the manufacture of mineral wool, which is, we are informed, the only works of the kind in operation in Canada.

LAIDLAW'S BARLEY CLEANER,

Shown in Machinery Hall by A.Laidlaw & Co., Toronto, is specially adapted for use of brewers, malsters and grain dealers, and seems to embody all the requirements necessary for the thorough cleaning of barley. It scours and brightens the berry, increases the weight, removes the impurities that would be detrimental to the appearance and quality of the grain. The scouring process is effective, yet gentle, and does not injure the germ, but leaves the berry in a much improved condition for sprouting when malted.

RONALD FIRE ENGINE WORKS.

Brussels, Ont., of which John D. Ronald is proprietor and manager, made a fine display of fire apparatus in Machinery Hall, the chief features of which were the large city steam fire engine, with capacity to deliver 1,000 gallons of water per minute, and which took first prize at the Chicago World's Fair; a smaller engine of similar construction, suitable for use in towns and villages; a chemical fire extinguisher and a hook and ladder truck. Mr. Ronald has supplied a large number of these machines to Canadian cities, towns and villages, where they are very fully appreciated.

HAMILTON BRIDGE CO.

One of the most interesting exhibits shown at the Fair was that made by the Hamilton Bridge Co, of an exact model of the Stoney Creek arch bridge recently built by them for the Canadian Pacific Railway and now in use in the Rocky Mountains. The bridge spans a gorge through which the mountain torrent rushes, and is some ft. above the water. The railway people consider this one of the best exhibitions of engineering skill to be seen anywhere in the world; and it illustrates the high perfection to which this representative Canadian concern have arrived in their business. This model was exhibited in the Annex Building.

GOLDIE & McCULLOCH CO.,

Galt, Ont., made their usual fine display, in Machinery Hall, of wood-working and other machinery, wood split pulleys, friction clutch pulleys, etc. Included in this display was a beautiful Wheelock steam engine, used for driving the main shaft of the building, and a new upright compound engine for driving a dynamo for electric light-

ing purposes.

Referring more particularly to this Wheelock engine, Mr. Walker, the manager of the exhibit, states that it has taken the place of a large number of other engines which had been used for driving electric machinery. In its construction it is exceedingly simple and economical, the general arrangement of it being closely upon the original American model. The main bed is of trunk girder pattern so arranged that the chief bulk of metal lies in the direct line of strain between the cylinder and the shaft bearings. The Wheelock engine is specially adapted to high periphery speed. The valves are perfectly tight, with no necessity for balancing. By the peculiar arrangement of the valve movement the cut-off is very effective and positive in its action, as the cut-off valve has but slight movement after closing, while the knuckle joint allows of continuous movement of the mechanism without moving the valve.

No charge made for these notices.

JOHNSON ELECTRIC CO.,

Toronto, had a comprehensive exhibit in Machinery Hall, consisting of motors, dynamos, generators, alternators, transformers, arc and incandescent lamps, insulators, wires, flexible cords, switches, etc. This display in the evening, under the electric lights, was very fine and excited much admired. and excited much admiration.

DOUBLE TRUSS CORNICE BRAKE.

Robert U. Irwin, Shelburne, Ont., exhibited this brake in Machine It is built of maple, thoroughly seasoned; the leaves are all double trussed and faced with steel plates, the clamping device, hinges, quadrant gauge, etc., are all made of maleable iron, and all parts are adjustable; it takes in sheets 8 ft. 2 in. long and forms 24 gauge iron or lighter, without springing; it splits the sheets and forms the iron on the same principle and with the same speed as iron brakes; makes mouldings of all kinds ridging and contents. brakes; makes mouldings of all kinds, ridging, valleys, gutters, eavetrough, square pipe, etc.

The James Robertson Co., Toronto, are sole agents for this agents. are sole agents for this article.

EXACT ARC LAMP CO.

This concern, through the Gurney-Tilden Co., Hamilton, Only made a brilliant display of their goods in Machinery Hall. The Exact arc lamp is non-magnetic, adaptable for any circuit, either alternating and the second control of the nating, polyphase or direct continuous current; high or low potential, mum light for a given amount of energy without flare or flicker, or perceptible variation of candle power. It burns almost noiselessly on alternating circuits and from from the control of the control o alternating circuits and free from hiss on direct circuits with a soft, steady light. It is a soft allernating circuits with a soft allernating circuits circuits with a soft allernating circuits wit steady light. It is sure in its pick-up, reaching its nominal candle power within thirty seconds, and burns perfectly from start to finish without over feeding. without over feeding.

KAY ELECTRIC CO.,

Hamilton, Ont., had their usual fine display of electrical machinery in Machinery Hall. This company have placed a large number of their motors in business establishments in Toronto and many other places, where they are siving available in Toronto and many other places, where they are siving available in the side of the side places, where they are giving excellent satisfaction. Their constant potential dynamos and motors are made in all sizes and voltages for both lighting and power, the advantages for both lighting and power, the advantages for both lighting and power the advantages. both lighting and power, the advantages claimed for them being substantial construction; smooth running and durable; well protected from external joiners, and the substantial construction is smooth running and durable; well protected from external joiners, and the substantial construction is substantial construction. ed from external injury; parts easily removed for attention or repairs, with least sparking—consequently small wear of commutator and brushes; perfectly self-regulating and so simple any man of ordinary ability can run them. A beautiful little machine exhibited by this company is used mainly by silver and sink the machine exhibited by this company is used mainly by silver and sink the machine. company is used mainly by silver and nickel platers, and is suitable for small shops that require but a little electrical energy. Weight, for small shops that require but a little electrical energy. Weight 90 pounds. Requires about ½ h.p. Will operate a nickel solution of sixty gallons or deposit about five ounces of silver per hour. Size of pulley, 2xz. Speed, 1,400 revolutions per minute. Coustructed of best material and substantial.

CHRISTIE, BROWN & CO.

One of the finest exhibits in the Main Building was that of Christie, Brown & Co., Toronto, who were the pioneer biscuit manufacturers of Canada, established when the control of Canada, established when the of Canada, established when trade in Canada was in its infancy, for who were but a short time in and trade in Canada was in its infancy, for who were but a short time in making a provincial reputation for fine biscuits. This firm in a few years made a reputation for them selves all over the Dominion and now taken a reputation for them. selves all over the Dominion and now take a high rank among the best biscuit manufacturers of the world. The exhibit consisted of some 400 varieties of biscuits, displayed to available to a straction of the world. 400 varieties of biscuits, displayed to excellent advantage in attractive tin boxes with glass fronts. Thousands of visitors gazed and admired this unique exhibit but they are thousands. admired this unique exhibit, but they count as nothing to the thousands of people all over the world who have for years used the delicious biscuits manufactured by this firm. This of the introduced ious biscuits manufactured by this firm. This firm have introduced into their factory the chain or traveling oven, with the idea of competing with any manufacturer. They provide the chain of the chain or traveling oven, with the idea of competing with any manufacturer. peting with any manufacturer. They now find that they can compete with goods turned out by English factories which have been established over a century. This chain oven has been for some time in use by all the high-class bakers in Furance. by all the high-class bakers in Europe. It gives a uniformity of baking superior to any other kind. This exhibit is identical with that by them at the World's Fair at Chicago, and their success there nor remarkable, for they took second place to mittee the varican nor remarkable. remarkable, for they took second place to neither American nor European manufacturers. The exhibit at the Toronto Exhibition while as perfect in every respect as it could not but a modern to the control of the contro while as perfect in every respect as it could well be, gives but a moderate conception of the style and quality of the st erate conception of the style and quality of the work done on their premises. As early as in 1858 this firm carried off the red ticket high class biscuits, and almost approach to the conception of the red ticket fails. high class biscuits, and almost annually since then they have not failed to secure it at all large fairs held in Canada.

CANT BROS. CO.,

Galt, Ont., Occupied their usual space in Machinery Hall, displaying interesting lines of their wood-working machinery. A machine which excited excited much interest was their automatic hollow square chisel mortising carried much interest was their automatic hollow square consermortising machine. This machine has proved itself to be exceedingly useful for mortising hard woods, thus being especially valuable in car, carried blind such and door factories. car, carriage, wagon, furniture, and blind, sash and door factories.

AUGUSTUS NEWELL & CO.,

Wright, the manager of the works, has had years of experience in making fine the manager of the works, has had years of experience in making fine manager of the works, has had years of experience in making fine machinery, and realizing the need of a first-class shop, can be assured of a first-class job, has equipped his works with such tools as Perry of the proper lather etc., and Brown & be assured of a first-class job, has equipped his works with such tools as Pratt & Whitney planer, shaper lathe, etc., and Brown & to the milling machines and grinders. They pay special attention patented to be attended to have the development of new ideas where machinery is intended to be attended to be attended to the state of patented, the greatest accuracy and efficiency always being guaranteed.

RICE LEWIS & SON,

Toronto, made a display in Machinery Hall of full lines of machinists' tools and soods, evanuable. A portion of this exhibit was devoted to bicycle goods, every part and portion of this exhibit was devoted to only the being shown. Any person of ordinary mechanical genius could build first-class by a first-class bike with the parts shown in this display.

This case because large and beautifu

This enterprising concern have a large and beautiful Kiost fronting the many displayed most on the main avenue of the Fair Grounds where they displayed most on the main avenue of the Fair Grounds where they displayed most attractive lines of house furnishing goods, including mantels, tiles, ladies and the lovers of fine things of this character.

OTTO OIL ENGINES.

Messrs, Joseph Baker & Sons, 58 City Road, London, England, Irough & Reantford, Ont., displaythrough one of the firm whose address is at Brantford, Ont., displayough one of the firm whose address is at Brantford, Ont., display that All achinery Hall one of their beautiful 1 h.p. Cycle oil engines light work.

This engine is specially adapted for the work work. ight work, and the ease with which it is managed, and the remarkit, and which at which it is operated, commended it to all who saw it, and which it is operated, to be delivered immediately it, and which it is operated, commended it to an who are upon the clare could be full to operate it costs less than one upon the close of the Fair. The fuel to operate it costs less than one cent per hose of the Fair. The fuel to operate it costs less than one cent per h p. per hour, common coal oil is used, and the services of a from one to so he engineer is not required. It is made in all sizes from one to 50 h.p.

NORTHEY MANUFACTURING CO.,

Toronto, had an interesting exhibit in Machinery Hall of power but have and interesting exhibit in use. This company have pumps and pumping machinery—some in use. This company have Canada, probably the largest steam pump and hydraulic works in standard, ample of the cole specially designed for buildings. Canada, amply provided with tools specially designed for building steam pump and hydraunc world steam pump and hydraunc world steam pump. sanada, amply provided with tools specially designed for bunding steam, amply provided with tools specially designed for bunding highest class of work in that line. They invite and challenge a fair sign, adaptability to the work to be performed, and excellence of sign, adaptability to the work to be performed, and excellence of material and workmanship.

Some of the pumps on exhibition were marked "Sold" as follows: loculloch Coamond Woolen Co., Almonte, Ont.; two to Goldie & Bertram Engine Works Co., McCulloch Co., Galt., Ont., and two to Bertram Engine Works Co.,

THE REEVES WOOD SPLIT PULLEY.

The Reeves Pulleys Co., Toronto, made an attractive display in directing the analysis their specialty, the Company directinery Hall of the wood split pulleys manufactured by them. Says the attention of the trade to their specialty, the Company texts under every atmospheric Says: Subjected to the most severe tests under every atmospheric climate of Florid freezing regions of Northern Canada to the most of Florid freezing regions of Seattle, and having been removed. on everythings. we have no hesitancy in asserting that "it has been tried and not important wanting" with a series of the series o success an article may have been pushed, yet we assert, and our we have claims have been corroborated by numerous mechanical experts that A have one after the corroborated by numerous mechanical experts that A have one after the corroborated by numerous mechanical experts that A have one after the corroborated by numerous mechanical experts that A have one after the corroborated by numerous mechanical experts that A have one after the corroborated by numerous mechanical experts that A have one after the corroborated by numerous mechanical experts that A have one after the corroborated by numerous mechanical experts that A have one after the corroborated by numerous mechanical experts that A have one after the corroborated by numerous mechanical experts that A have one after the corroborated by numerous mechanical experts that a second corroborated by numerous mechanical experts that A have been corroborated by numerous mechanical experts that a second corroborated by numerous mechanical experts the corroborated by numerous mechanical We have been corroborated by numerous mechanical experts the Apulley one of the most practical wood split pulleys on the market. pulley one of the most practical wood split pulleys on the manager of the that can be specified and symmetry, lightness and durabilities can be specified by the based or where great strengths. One that can be safely run at high speed or where great strengths have sarry. A summer sample satisfaction in places where others have failed. A pulley which gives satisfaction in places where others that we speak the truth that we speak the truth.

No charge made for these notices.

ELECTRIC DAMPER REGULATOR.

A.J. McDonough, Toronto, exhibited in Machinery Hall two of his electric damper regulators, intended for regulating the draft in furnaces of boilers and other heating apparatus. The arrangement is very ingenuous and seems to accomplish the purpose for which it was intended, the simplicity of it being an important feature. These dampers were made for Mr. McDonough by Messrs. Aug. Newell & Co., Toronto.

SOHO MACHINE WORKS,

Toronto, of which A.R. Williams is proprietor, made a comprehensive display in Machinery Hall of iron and wood working machinery largely the product of the London, Ont., Machine Tool Co., with which he is intimately connected. These exhibits included iron planers, shaping machines, engine lathes, screw cutting machines, milling machines, brass workers' machinery, combination shearing and punching machines, etc.

THE WM. HAMILTON MFG. CO..

Peterborough, Ont., exhibited in Machinery Hall one of their Boss turbine water wheels. Regarding this machine it is described as giving the highest percentage of useful effect for every cubic foot of water used. There are no swinging gates, arms, or rods. Six castings comprise the entire wheel. Can be mounted on herizontal or vertical shafts; revolves on steel balls, therefore without friction. Easily controlled by governor. Can be shut off instantly in case of accident. Gates not easily chocked or clogged. By taking out bolts, wheel can be immediately removed from case.

BARBER & WATSON,

Meaford, Ont., displayed one of their very excellent Barber Canadian turbine water wheels. This wheel is specially adapted for use in woolen mills, as will be seen from the testimony of James Randle, proprietor of the Meaford Woolen Mills, who says:-Regarding the 36-inch water wheel you put in for me two years ago, it has given me perfect satisfaction. I have a complete 1 set woolen mill with all the necessary machinery, and my head varies from 4 to 7 feet. Our best running head is 5 feet, which gives all the power we want, and our machines run like clock work. I cannot speak too highly of what this wheel has done in this very trying situation—with the mills above shutting down for hours and then letting down a flood of water. have been very busy, and only a thoroughly good wheel could have handled my mill during this dry season.

COWAN & CO.,

Galt, Ont., proprietors of the Galt Foundry, Engine and Machine Works, showed quite a large number of specimens of their products in Machinery Hall. They make a specialty of the celebrated Corliss steam engines, the regular sizes which they construct being from 8in. diameter of cylinder and 24-in. stroke up to 20-inch diameter and 48-inch stroke. They also manufacture all sizes of boiler up to 72 inch diameter, having one of the best equipped boiler shops in the Dominion. They also build all kinds of wood-working machinery, including double surface planer and matcher; band saw machines; pedestal tenoning machines; revolving bed moulder, to work on three or four sides; pedestal shaper; combination saw bench, etc.

One of the most noticeable exhibits in Machinery Hall was a Moffatt feed water heater and purifier, manufactured by Cowan & Co. for the inventor, H.E. Moffatt, of Woodstock, Ont.

DEAN'S STEAM TRAP.

James Dean & Co., Detroit, Mich., and Windsor, Ont., exhibited in Machinery Hall their patent Little Grant automatic steam return trap and boiler feeder, for returning condensation directly to the boiler against any pressure, and for removing the water of condensation from steam heaters, radiators, etc. It is simple in construction, all the machinery being on the outside. The tank is made of steam all the machinery being on the outside. pipe so that any pressure may be carried.

One of these machines was recently placed in the Detroit White Lead Works, and Messrs. Dean are in receipt of the following letter from the superintendent thereof regarding it:-This is to certify that I have been using one of Dean's Little Giant Traps in the Detroit White Lead Works for six months to our entire satisfaction. The factory consists of cellar, first, second and third floors. In cellar and each floor are radiators, whose united capacity is about 7,000 feet of one inch pipe. Trap return the condensed water into our boiler. Our boiler is from 80 lbs to 100 lbs highest pressure and I think that Trap could do the work of double our capacity. Should an engineer's pump or injector get out of order the Little Giant trap as boiler feeder will do the work, and put the cold or hot water into the boiler, and I cheerfully recommend it as second to none in the market.

E. LEONARD & SONS,

London, Ont., manufacturers of engines, boilers, heaters, pumps, etc., displayed lines of their goods in Machinery Hall. Noticeable in this exhibit were two of their Leonard-Ball automatic high speed engines, one of 65 h. p. and the other 100 h. p., which were employed in driving four of the Royal Electric Co.'s dynamos for illuminating the Fair Grounds and buildings.

A. W. SPOONER,

Port Hope, Ont., made a good display in Machinery Hall of his Copperine anti-friction metal, so well known throughout Canada; his new fibrous metallic packing, which he is now introducing in this country after having achieved a large and well-deserved reputation in the United States, and his disinfectant Phenyle. Spooner says that Port Hope is the most beautiful town on the continent, and the opinion of everybody else is that Spooner ought to know.

HART EMERY WHEEL CO.,

Hamilton, Ont., made an attractive exhibit in Machinery Hall, noticeable in which was their Rogers' automatic band saw filing machine. This machine is simple and easily operated, the pawl moving the saw at the rate of about 45 teeth per minute, the emery wheel moving in and out upon each tooth as it passes, grinding either front, throat or back, or all, as may be necessary. This company's line of wood workers' emery grinding machines include planing mill grinder; automatic circular saw filer; planer knife grinder, etc.

THE ROYAL ELECTRIC CO.

Montreal, presented a most attractive display in Machinery Hall, consisting of alternating and direct current dynamos, direct and alternating motors, automatic are dynamos, mos, also fan and small power motors; also a line of domestic utensils consisting of sad irons, polishing and hatters' irons, tailors' goose irons, tea kettles, tea pots, coffee pots, stew pans, broilers and toasters, pancake griddle, skillet or spider, sealing wax heater, curl-ing tongs, office and residence radiators, all operated by electricity. They also made a special wire for high frequency currents, and a full line of flexible cable, also lamps, shades and fixtures of all kinds, special among which were a line of portable or stand lamps. They also showed a line of testing and measuring apparatus for electrical currents and machinery. All the dynamos and machines were in running order and used to light their own as well as some of the other exbibits.

TORONTO STEEL CLAD BATH AND METAL CO.

One of the most attractive exhibits in the Main Building was that of this company. It consisted of a very elegantly appointed bath room appliances in which the latest sanitary plumbing is shown, the most important feature being the Booth patent steel bath tub. tub is strictly sanitary, being entirely open and devoid of encasement of any kind, having no hidden corners or receptacles for disease germs or particles. It is all metal, and therefore impervious to decay, warp or shrinkage, to which wooden or composition baths are subject. It is thoroughly constructed, is handsome in appearance, and capable of unlimited possibilities in the way of decoration. It combines all the advantages and has none of the disadvantages of baths four times its price, the figure at which the steel-clad is placed bringing it within the reach of everyone.

These baths are covered by letters patent in Canada, England, United States and Australia, and factories are located in Toronto, Detroit, New York and London, England.

TORONTO ELECTRIC MOTOR CO.

This concern made an attractive display of electric motors, etc., in Machinery Hall, where they hung out a sign to the effect that "If you want a motor or a dynamo to run your factory, or to light it," to purchase from them. This advice seemed to have been accepted by quite a large number of persons, judging from the signs placed upon the machines indicating that they had been sold to the parties thereon the machines indicating that they had been sold to the parties thereon named. Among these sales were observed a machine to the Monetary Times, Toronto; Massey Music Hall, Toronto; John Fensom Elevator Works, Toronto, for Sanderson, Pearcy & Co.; Jones & More Electric Co., Toronto; John Read, Stratford, Ont.; D. Graham & Son, for woolen mill at Inglewood, Ont., and others. During the progress of the Fair this concern also obtained orders for dynamos and electric machinery as follows:—McDonald Bros., Winnipeg, Man.; George Knaggs, Toronto: Toronto Ice Cream Co.; Wilson & Wilson, Lindsay, Ont.; Klein & Hearn, Guelph, Ont.; R.W.Conroy, Duschene Mills, Que., and Victoria Electric Light Co., Lindsay, Ont No charge made for these notices.

EUREKA REFRIGERATOR COMPANY.

Toronto, W. Hooey, proprietor, showed a handsome line of Eureka refrigerators for families, butchers, grocers, etc. The principal point of excellence claimed for this article is the dryness of the cooling room under all aircraft and the cooling of th room under all circumstances, and the ease with which it can be regulated

J. S. HAMILTON & CO.,

Brantford, Ont., occupied a space in the Main Building, showing specimens of the wines, etc., manufactured by them. They are sole agents for Canada for the Vin Villa vineyards of Pelee Island, the West View vineyard of the Bright View vineyard view viney West View vineyard of the Pelee Island Wine and Vineyard Co., also of that island and others. of that island and others. The products which this company handle, especially their Catawba, Isabella, St. Augustine and clarets company mare most favorably with feeding. pare most favorably with foreign wines.

WILLIAM C. WILSON,

Toronto, made a display of machinery supplies in Machinery including steamboat, railway, electric and mill supplies, lubricating oils, engine packing, cotton waste, arc light carbons, magnesia boiler covering, rubber gaskets, etc. A special feature of this exhibit was the Thistle brand square flav engine and the carbons of the exhibit of the control of the carbons of the carbon was the Thistle brand square flax engine packing, put up in boxes of 5 and 10 pounds each, and in reels of 50 pounds in all the usua sizes.

COLD PIPE AND METAL BENDER.

The Universal Cold Pipe and Metal Bending Co., Toronto, exhib ited in Machinery Hall their Seaton bending machine, in charge in Mr. Thomas Seaton, the inventor. This pipe bending machine, wented more especially for the use of plumbors are and atom fitters. vented more especially for the use of plumbers, gas and steam etc., will bend thin lead sine for better, etc., will bend thin lead pipe for brake syphons, offsets right without sand, springs or filling of a supplying of supplyi without sand, springs or filling of any kind. It will bend cold iron of brass pipe, without kink or wrinkle, of any reasonable size and thick ness, just the same. Average time it takes is about two minutes bend, and is so simple that any boy can use it. Can be agried round. bend, and is so simple that any boy can use it. Can be carried round to the work just the same as a pipe vise. It will also bend cold step pipe, without filling, for bicycle handles, band iron, etc. The machine was on view on a perfect plumbers' and fitters' bench.

THE PLANSIFTER CO.,

Stratford, Ont., had one of their unique plansifter machines in perturbation in Machinery Hall which are operation in Machinery Hall, which attracted much attention, a liarity of it consisting in the gyrating motion it possesses. made for it are that it makes clean breaks, dry middlings, pure saves power, requires only about 11. made tor it are that it makes clean breaks, dry middlings, pure flour saves power, requires only about 1½ horse power to drive it, as smooth and easy and saves fuel. Requires little room, as it standmuch greater working capacity than other machines. Notwithstanding its great capacity it has only about one hundred and fifty square ing its great capacity it has only about one hundred and fifty square feet of bolting surface. Moves similar to a hand sieve. It brings the dark branny particles of the stock to the top and keeps them floating at the surface, while the pure white particles of flour fall easily at the surface, while the pure white particles of flour fall easily at the surface, while the pure white particles of flour fall easily through the sieves. The sieves are always kept clean without use of brushes and without attendance. Makes coarse or fine at the miller's convenience. Does away with a number of spouls and elevators. Is equally valuable for hard and soft wheat even continuous true, one than the sieves are always to the same at the miller's convenience. elevators. Is equally valuable for hard and soft wheat, rye, oatmeal, and is also used to great added soft wheat, rye, oatmeal, and is also used to great advantage in breweries, distiller and wherever grading and separation for the services of t and wherever grading and separating of material are wanted.

BELL TELEPHONE CO. OF CANADA,

With head offices at Montreal, occupied a prominent place in the place Main Building where they exhibited comprehensive lines of telephon and electrical apparatus and evention. and electrical apparatus and supplies. By the system of this company all the rooms in a building may be connected. all the rooms in a building may be connected so that private of munications can be carried on simultaneously between any them. The company sell telephonic instance. them. The company sell telephonic instruments at prices the profession of the company's patents, and purchasers are therefore ly free from risk of litigation.

The Company manufacture fire alarm telegraph apparatus of all scriptions, and is prepared to furnish actions. descriptions, and is prepared to furnish estimates to cities, towns and villages for the construction of fire alarm systems. For sale or least that is the principal towns in Carriago in Having its own poles in all the principal towns and villages its fire ada, it is in a position to do this work when the principal towns are villages its fire ada, it is in a position to do this work when the principal towns are villages its fire ada, it is in a position to do this work when the principal towns are villages its fire ada, it is in a position to do this work when the principal towns are villages in the princi ada, it is in a position to do this work where others are not. alarm apparatus is in successful operation in Montreal, Lachine, for wall, Gananoque, Napanee, Stratford, and other places. Sale, or will manufacture to order, various sizes of electro-mechanical gones, tangers by sale, or will manufacture to order, various sizes of electro-mechanical gongs, tappers, bells, and tower strikers.

The Company maintain branch control of the control of t

The Company maintain branch offices and salesrooms at Montreal Toronto, Quebec, Ottawa, Hamilton, Winnipeg and Vancouver.

οί

oŧ

's, ft,

or ·k

a M

۲ĺ

ne

ia

re be X Y

ひれ のせい

~

χÌ

rc

No charge made for thses notices.

JOLIFFE & CO.,

Toronto, manufacturers of fine furniture, made a beautiful exhibit of their products in the Main Building.

E. D. TILLSON,

Tilsonburg, Ont., made an interesting display of the cereal food roducts manufactured by him. These include specialties in wheat, buckwheat, barley, corn, peas and oats.

MESSRS. GANONG BROTHERS,

St. Stephen, N.B., occupied a beautiful kiosk in the Main Building, enclosed with plate glass, containing samples of the large varietie of fine candies, chocolates, creams and confectioneries manufactured by them. This is the largest concern, we believe, in the Maritime Provinces, and one of the largest in Canada. They have established a depot in Toronto, under the management of Mr. H. A. Lyle.

W. B. MALCOLM,

Toronto, occupied a beautifully fitted up space in the Main Building in which he showed lines of his plumbers' goods and house furnishing supplies. One of the most noticeable features is his patent tank and wash-out water closets. These closets are of different designs, furmasseum water crosses. A nesse consens are or different designs, furnished with a 3-inch supply and after-flush chamber, and so constructed as to receive the entire contents of the tank in less than half the time required by the ordinary over-head tank, at the same time securing a perfect wash to every part of the basin, and are comparatively noiseless.

WITHROW & HILLOCK.

Toronto, showed in the Main Building a number of their refrigerators with plate glass fronts through which were to be seen a variety alors with parter glass forms from the five to be seen a variety of butcher means, fruits, vegetables, etc. A feature of these refrigerators is the open bottom in the ice chamber. A portable combination hotel refrigerator is shown, made especially for hotel use, similar ones in smaller sizes being made for families. They are constructed with patent covers; an arrangement for the admission of cold air the hottom of the possision chamber, and the ice chamber sitting as the bottom of the provision chamber, and the ice chamber either at the side or top of provision chamber.

TORONTO CARPET MANUFACTURING CO.,

Occupied a conspicuous location on the ground floor of the Main Building in which was displayed full and comprehensive lines of the carpets, rugs, etc., manufactured by them in their works in Toronto. Included in this display were the Imperial, an all wool 3-ply; Maple Leaf, an all wool 2-ply; Standard, a first-ciass union carpet; Victor, a heavy carpet; Beaver, an all wool at low price; Challenge, a very chap article; Oriental, a new 3-ply, strong and cheap, and Impera-trix Axumster, the new popular article which possesses the beauty of a Wilton at the price of tapestry, and which is made in bodies, borders, stairs, mats and rugs. A beautiful line of cheneille curtains, made by this concern was also shown in widths of 38 inches, 44 inches and 48 inches. Some of these goods won awards at the Chicago World's

This company is composed of shrewd business men who have abundant capital to carry on their enterprise under the management of Mr. James P. Murray, president, and Mr. F. B. Hayes, secretary.

DON VALLEY PRESSED BRICK WORKS,

Of which Messrs. Taylor Bros., Toronto, are proprietors, made a most interesting exhibit in the Main Building. The display was most artistically arranged, and consisted of terra cotta in all colors, enamelled bricks in an endless variety of shades, and, in addition to these, the ordinary white and buff bricks. Both the terra cotta and enamelled bricks of the second and enamelled bricks. amelied bricks are fully equal to those produced by the most celebrated manufacturers in England. The most noticeable features of the exmanufacturers in England. The most nonceasure reasures of one exhibit was a large Faience terra cotta ever seen in Canada. Some of the brick shown were from the lot shipped to Salt Lake City, Utah, for the building of the great Mormon temple.

Messrs, Taylor operate at their works what they say is the only archerick strinding machine in Canada and they can supply archer

Messes. Taylor operate at their works what they say is the only arch brick grinding machine in Ca. da, and they can supply arche ground to order at a few days' notice. This is a great saving to builders, as it avoids all br takage in cutting, and also makes a perfect job when built. They ship them in boxes, each brick numbered, so that no time is wasted in building them in.

The Don Valley red pressed bricks, as tested at the School of Practical Science, showed a crushing strain of 15,000 pounds to the square nch.

No charge made for these notices

MACLAREN'S IMPERIAL CHEESE.

Messrs. A. F. Maclaren & Co., Windsor, Ont., made a fine display in the Main Building of their Imperial cheese, put up in jars and pots of convenient size for family and hotel use. All epicures know what Maclaren's cheese is—it is delicious, healthful and digestible.

TORONTO LITHOGRAPHING CO.

This company did not have any particular space assigned to them at the exhibition, neither did they make any collected display, but their work was ubiquitious, for there were but few exhibitors on the grounds who did not have and distribute specimens of their work.

BRUSH & CO.,

Toronto, manufacturers of the Ball corsets, had their usual fine exhibits in the Main Building. This exhibit attracted much attention; the corsets shown being exceedingly beautiful in design and finish. These goods are all made on scientific principles, and are faultlessly correct as to shape, workmanship and style. They are made in styles and finish to meet all demands of the trade, the prices for which place them readily within the ability of those who are not wealthy, and the elegance of other specimens being all that can be desired by those who require a more expensive article. This is an important Toronto industry, which gives constant amplications to support the superal handwall hands. industry, which gives constant employment to several hundred hands.

TORONTO SILVER PLATE CO.

Made their usual beautiful display of artistic silver plate in a very handsome plate glass showcase in the Main Building. This display i reluded about everything in that line desirable for domestic use. This important manufacturing establishment gives employment to a large number of expert artists and workmen. All of their products are as artistic in design and attractive in workmanship as any made in even the most celebrated establishments of London, Paris, Berlin or New York. In another part of the building was exhibited what is said to be the largest trophy of the kind ever constructed. It was made as a prize for the American Dunlop Tire Co., Toronto. It excited much admiration.

SAMUEL MAY & CO.,

Toronto, the well know, manufacturers of billiard tables and similar sporting goods are offering something new, which they claim will lighten the burdens of all owners of billiard tables. For years makers have been striving to secure a composition ball with somewhere near the elasticity of ivory, and which could be substituted for billiards without any noticeable difference to the players, and a saving to the owner. Messrs. May & Co. : y their searches have at last been rewarded, and that they are now in a position to supply the public with a "chemical ivory" billiard and pool balls, at comparatively a trifling a "chemical ivory" billiard and pool balls, at comparatively a trilling cost. The chemical ivory balls are superior in many respects to ivory; they will not break, crack or shrink, they are precisely the same weight as ivory, they are not affected by temperature, they have no "heavy sides," the contre of gravity and centre of density being equal in every ball. The colors cannot wear off, being through the entire ball in all cases, so that turning and recoloring is dispensed with.

BOOTH COPPER CO.,

Toronto, had an attractive exhibit in the Main Building. new firm, the business having been carried on for the last forty years under the name of George Booth and later Booth & Son. Mr. George under the name of George Booth and later Booth & Son. Mr. George Booth, head of the establishment, is also president of the Steel Clad Bath and Metal Company, with manufactories at Detroit, New York and London, England. Mr. Booth is treasurer of the Canadian Manufacturers' Association, and a director of the Industrial Exhibition. The Booth Copper Company are confining themselves to the manufacture of heavy copper work used in distilleries, Freweries, sugar manufactories and other establishments. They have recently filled a large number of contracts in this line. They make a specialty of corner range boilers, and have succeeded in turning out an article filled a large number of contracts in this line. They make a specialty of copper range boilers, and have succeeded in turning out an article which thay claim is the cheapest and best in the market. The strength and durability of these boilers have been tested time and again and their popularity among customers is evinced by their constantly in-creasing sales. They have recently placed a new boiler on the mar-ket which has several important improvements for which letters patent have been secured.

This Company are also manufacturers of varnish makers' and marine copper work. They also supply confectioners' kettles and

The exhibit includes a number of range boilers, confectioners' steam jacket kettles and cider kettles. All these articles are of the finest quality.

MEYER BROTHERS,

Toronto, manufacturers of laundry machinery, displayed a good line of their products in the Main Building. They are prepared to supply all wants of the trade.

OWEN ELECTRIC BELT CO.,

Toronto, presented a fine display in the Main Building of the electric belts and other electric appliances made by them. The exhibit was prepared by Mr. G. C. Patterson, the manager of the company.

CREELMAM BROS.,

Georgetown, Ont., manufacturers of knitting machines, etc., have extended their business and are manufacturing the Bleckensderfer typewriting machine, specimens of which were shown in the Main Building.

LONDON ELECTRIC MOTOR CO.,

London, Ont., displayed a quantity of their electrical machinery in Machinery Hall, a very handsome article being a 4 h. p. motor for light work. This machinery is well and substantially built, and tastefully ornamented.

CHARLES CLUTHE.

Toronto, occupied a prominent space in the Main Building in which he made an interesting exhibit of orthopedical appliances. Mr. Cluthe has devoted a life-time to the study of surgical mechanism and has achieved an enviable reputation for such work.

IRELAND NATIONAL FOOD CO.

Toronto, exhibited a large and complete assortment of breakfast cerea's in the Main Building which attracted a great deal of attention. They showed grain in the sheaf, the selected grain from which their products are made, the manufactured goods, and then in packages as offered to the public. Out of some twenty-five varieties were noticed, particularly, the dessicated wheat, both rolled and granulated; dessicated rolled oats, snowflake barley, buckwheat flour, self-rising; farinose or germ meal, farina, etc., and gluten flour.

CROMPTON CORSET CO.,

Toronto, made a fine display in the Main Building, which included more than a dozen styles of corsets, some of which are very beautifully ornamented with lace and needle work, the prices ranging from twenty-five cents to as many dollars. The Lewis magnetic corset, shown by this company, is described as being mechanically constructed upon scientific principles, symmetrical in shape and unique in design. Each section of the corset is so formed as to maintain the vertical lines of the body, and readily conforms to the figure of the wearer. It is stayed with strips of highly tempered spring ribbon steel, which is superior to other boning material, owing to its flexibility smoothness and durability. Each steel (or stay) is nickel-plated, highly polished and metal tipped to prevent the ends from cutting through the fabric. The steels are encased in separate pockets and can be removed or replaced at pleasure, and are so distributed as to afford the necessary support to the spine, chest and abdomen, while at the same time so pliable that they yield readily to every movement of the body, thus assuring constant comfort to the wearer.

TRURO CONDENSED MILK AND CANNING CO.,

Truro, N.S., exhibited a pyramid of their goods in the Main Building, consisting of their Reindeer brand of condensed mik, tea, coffee and cocoa, and attendants who served to visitors caps of piping hot samples of these goods, showing the readiness with which they can be adapted for domestic use, and the excellence of them. The condensed milk prepared by this company has a long established reputation, and is used extensively in the British army, and on sea-going vessels. The other articles, coffee, tea and cocoa, are of more recent introduction, but long since past the experimental stage—they are standard goods.

To prepare condensed coffee, cocoa, or tea, for use: In each cup required place a teaspoonful of the condensed article being used. Add a small quantity of boiling water and stir until contents are thoroughly dissolved. Then fill the cup with boiling water. No waste of time or material. Flavor delicious. For home use, lunch rooms, picnics, holiday parties, church festivals, sportsmen, etc., these are ideal and indispensable preparations.

No charge made for these notices.

J. O. PARKER & CO.,

Toronto, successors to Booth & Son, presented a very attractive display of brass goods in the Main Building, including kettles and stands, plumbers' trimmings, and household furnishings.

D. RITCHIE & CO.,

Montreal, made an exhibit of their goods in Main Building, including Old Chum, fine cut, Derby plug, etc., tobaccos, besides cigarettes, cigars, pipes, etc. This concern have branch houses in China, Japan, South America, India, Australia, and in Europe.

N. K. FAIRBANK & CO.,

Montreal, had an attractive booth in the Main Building in which was displayed their popular Cottolene. There was a cooking arrangement where popular and ordinary household products, such as biscuit, buns, cookies, etc., prepared with Cottolene were cooked and distributed to visitors. Cottolene is a first-class health food which is superceding lard and butter as a cooking fat.

WORSTED & BRAID CO.,

Toronto Junction, Ont., made a fine display of the braids, laces, webs, etc., manufactured by them, in the space in Main Building occupied by the Toronto Carpet Manufacturing Co. These goods included about every line usually produced in such factory, and demotstrated the fact that all requirements for such articles can be met by this enterprising Canadian concern.

THOS. DAVIDSON & CO.

The exhibit of this enterprising Montreal concern in the Main Building never failed to attract the attention of sight seers with its many lines of glittering tinware, colored Japanned, lithographed ware and stove boards.

The stove board being introduced this year by this company surpasses anything they have heretofore put out, its special advantages being that it is made in one piece and without corner clips, giving a smooth surface with no parts to pull off.

Lithographed tea caddies, tin boxes and signs in every conceivable shape and design contributed their share to this attractive exhibit the production of these goods necessitating the addition to the present plant of one of the largest lithographing presses in America.

Cheese factory cans are applied.

Cheese factory cans are another important branch of manufacture, and to the improvements of last year's can, several new and desirable features will be added this coming season.

Galvanized oil cans, wash tubs, and pails, Japanned and retinned goods, cinder sifters, steel creamer taps and other similar lines were favorably commented upon.

Another new and important branch of manufacture is at present occupying the attention of this firm, viz.:—their white and grey enamelling plant, which is fast approaching completion, and a fu will soon be offered to the trade.

KERR & CO., N.M.T.

There was no more interesting and attractive exhibit in Main Building than that of Kerr & Co., Toronto, a branch of the well-known sewing thread manufacturers, Kerr & Co., of Paisley, Scotland. This exhibit consisted of a spooling machine similar to those in use in the different factories of the company, where the thread as it comes in hanks from the Paisley factory is wound upon spools. This exhibit showed only the process of winding upon small spools, of 200 yards of thread for domestic purposes, but it imparted a good idea of the manner in which the larger spools are filled, such as those in demand in clothing factories, some of which contain thousands of yards thread. As compared with these spools containing as much as a mile of thread—1760 yards—appear quite small. The exhibit was crowded at all times by the curious sight seers.

The establishment of this spooling factory in Toronto was a direct result of the National Policy which imposes a higher duty upon thread already spooled than it does upon thread in hanks. The manager of this Toronto enterprise, Mr. James Wylie, is a large shareholder in the head concern of Kerr & Co., at Paisley, and it is to his energy perseverence and patience that the Canadian concern has assumed such large importance.

Another interesting feature of this exhibit was the process of manufacturing spools, as shown in specimens beginning with the wood stelled in the Canadian forest, showing all the processes of manufacture therefrom up to the completed spool. All the spools consumed by this Toronto factory are made, we learn, in New Brunswick and Nova Scotia, and the vast quantity of them used constitutes a corsiderable item in the bill of costs; but the spools can be produced much cheaper in Canada than in Scotland.

:h

No charge made for these notices.

MENZIE, TURNER & CO.,

Toronto, manufacturers of window shades, window fixtures, etc., made a fine display in Main Building.

WILKINSON TRUSS CO.,

Toronto, showed comprehensive lines of the trusses, etc., manufactured by them. Their exhibit was in Main Building.

E. WESTMAN,

Manufacturer of butchers' tools, Toronto, displayed full lines of his goods in Main Building. These articles, we are told, are all made of the best qualities of steel.

ONTARIO GALVANIZED IRON WORKS,

Toronto, A. B. Ormsby & Co., proprietors, displayed in Main Building attractive specimens of galvanized iron and copper sky lights, comices, roofing, metal ceiling, hot air furnaces, etc.

J. H. ROGERS,

Toronto, manufacturer of furs, hats, etc., made a fine exhibit in Main Building of their products, including fine furs—caps, hoods, capes, coats, jackets, etc., and silk and other hats for gentlemen, ladies, misses and children.

J. & J. LUGSDIN,

Toronto, manufacturers of tadies' and gentlemens' fine furs, had a most beautiful plate glass case in Main Building filled with their goods. They were all of the best and most fashionable materials and styles, and excited much attention.

EDWARDSBURG STARCH CO.,

Whose extensive works are at Cardinal, Ont., had a fine cabinet in Main Building in which was displayed specimeus of the many lines of goods manufactured by them. The lines of laundry starches displayed were Benson's Satin Starch, Edwardsburg Silver Gloss, Edwardsburg No. t White, and Edwardsburg rice. These were supplemented by a large display of Benson's prepared corn for cooking purroses.

W. E. SANFORD MFG. CO.,

Hamilton, Ont., had an immense show case in Main Building, the same that they had at the Chicago World's Columbian Exhibition, in which was contained full lines of the mens' and boys' clothing manufactured by them. The exhibit at Chicago attracted much attention, not only because of the beauty and excellence of the garments shown, but also because to each article was attached tickets showing the prices at which it was offered for sale in Canada, and with which no American manufacturer could possibly compete.

MORSE SOAP WORKS.

One of the most attractive exhibits in the Main Building was that of the Morse Soap Works, Toronto, of which Messrs. John Taylor & Co., are proprietors. The arrangement was in the style of a Pompien court, in the midst of which was a large lion, the whole being made of different kinds and colors of soaps manufactured by this concern. The lion was most artistically carved out of a single block of soap which weighed some 2000 pounds.

Messs Taylor & Co. are, perhaps, the largest soap makers in Canada, and their lines embrace every variety from common laundry to the finest toilet soaps, also soaps for woolen manufacturers' use.

E. MAHONY,

Toronto, manufacturer of Swiss embroidery, etc., had a Swiss embroidering machine in operation in Main Building which excited much interest. Mr. Mahoney has but recently embarked in this business and he states that he is meeting with most gratifying success. He manufactures edgings, insertions, etc., in both white and colors, and also makes a specialty of embroidering and ornamenting cloaks, capes, etc. Spectators were afforded the opportunity of witnessing a machine in operation upon which more than a hundred designs were being embroidered at the same time, in various colors. Some of these were handkerchiefs and badges giving a view of the Main Building and which were in great demand as souvenirs of the occasion.

No charge made for these notices.

COMET CYCLE CO.

Toronto, exhibited lines of their well known Comet bicycles, including some very attractive wheels for ladies.

THE COWAN CO..

Toronto, manufacturers of cocoas, chocolates, etc., made an attractive exhibit of their goods in Main Building.

THOMAS MOUNCE,

Toronto, exhibited in Main Building specimens of a new patent hasp lock manufactured by him. The article possesses much merit.

J. H. WETHEY,

St. Catharines, Ont., is a manufacturer of condensed mince meat, a display of which he made. It is put up in convenient packages for family use.

O. T. SPRINGER,

Burlington, Ont., exhibited his patent rolling and folding partition by which the whole width and height of a room may be opened and the partition completely concealed from observation, no track or guide being required.

PAYNE & THOMPSON,

Orillia, Ont., have recently patented a hammock bed which they displayed in Main Building. It consists in an arrangement which can be placed over any bed, affording great comfort to the sick and to those suffering with broken bones.

J. H. BANES,

Toronto, is the inventor and patentee of a new arrangement for impelling bicycles, and this he illustrated in his display in Main Building. The device consists in levers operated by the feet of the rider, which supplants the chain now usually used.

FEE & MACKEY,

North Bay, Ont., exhibited in Main Building several specimens of their patent tubular refrigerators. They are made to meet the demands of all classes requiring such articles—butchers, grocers, saloons, hotels, and for domestic use. The article seems to possess all the merits claimed for it.

DUNLOP'S CYCLES.

There was a fine display in Main Building of Dunlop's bicycles, and all the men and boys, and the women and girls, too, who take to bikes like ducks do to water, were interested. The great Dunlop trophy, an immense silver ornament valued at \$1,000, manufactured for Dunlop by the Toronto Silver Plate Co., was on exhibition in the Picture Gallery.

DOMINON COTTON MILL CO.,

Whose headquarters are at Montreal, made a remarkably fine display of pain and printed cotton cloths, the products of their several factories. It was somewhat of a revelation to many to learn that the beautiful prints there shown and the same as are being exhibited in the stores and ticketed as American goods were not of foreign manufacture at all, but made in the mills at Magog, Que.

TORONTO FENCE AND ORNAMENTAL IRON WORKS,

Joseph Lea, proprietor, made an exceedingly interesting exhibit in Main Building of specimens of wrought and hammered iron work, an artistic porch lantern being particularly noticeable. Mr. Lea made the iron ornaments to be seen in and upon the new Parliament Buildings, Toronto, in the new power house of the Toronto Railway Co., the residence of Mr. George Gooderham, Toronto, Hon. W. E. Sauford's residence, Hamilton and many others.

McLEAN & BULLEY,

Toronto, who manufacture the Planet bicycle, exhibited several of their wheels.

BEAL BROS.,

Toronto, tanners and manufacturers of harness and sole leathers, etc., made a good display of their goods in Main Building.

CUARK DENTAL MFG. CO.,

Toronto, are the manufacturers in Canada of the Columbia dental chair, specimens of which were exhibited in Main Building.

SMITH MFG. CO.,

Galt, Ont., exhibited their American silver truss for the cure of hernia. They also manufacture umbilical and other trusses.

STANDARD MILK CO.,

Toronto, possess the right of valuable patent for straining, aerating, chilling and bottling milk. This system was fully explained in their exhibit in Main Building.

HEWSON BROS.,

Toronto, manufacturers of the Mirror harness dressing, exhibited and explained the merits of their product. This article is valuable not only on harness, carriage tops, etc., but also for leather covered furniture, boots and shoes.

J. E. ELLIS CO.,

Toronto, manufacturers of tower blocks, etc., had a specimen of these clocks placed in the east front of Main Building. Many who were not familiar with the mechanism of such clocks were much interested in that of this one which was in plain view.

No charge made for these notices.

ST. CROIX SOAP MFG. CO.,

St. Stephen, N.B., made a good display in Main Building of Surprise soap.

C. WILSON & SON.,

Toronto, made a good display in Main Building of weigh refrigerators, butchers' tools, etc.

JOHN H. POOL,

Newcastle, Ont., made a beautiful displayin Main Building of dling canoes varying in length from 13 to 16 feet.

CLAUSS SHEAR CO.,

Whose Canadian head office is at Toronto, made a good display a Main Building, of fine shears, scissors, razors, cake and paring knives, etc.

VACUUM OIL CO.

Whose Canadian works are at Toronto, had an exhibit usluding engine and machine oils, also specimens of leather preserved with vacuum oil.

THE COPP-CLARK CO.,

Toronto, manufacturers of parlor games, etc., made quite a display of their products in Main Building, which was very attractive to the young people.

W. M. WATSON.

Brantford, Ont., exhibited his patent automatic reclining chair. It is adjustable to any desired position, and should be invaluable in a sick room or hospital.

..J. S. MAYO..

100 Nazareth Street, -:- MONTREAL.

Importer and Manufacturer of High Grade

Lubricating Oils

ALL OILS GUARANTEED TO GIVE SATISFACTION.

H. McLAREN & SONS,

Toronto, had an interesting exhibit in Main Building of the Denison electric dental motor outfit and dental operation chairs made by them. They manufacture all kinds of dental appliances.

TORONTO GAS STOVE SUPPLY CO.,

Displayed a handsome variety of gas cooking ranges, heaters, gas fires, etc. At the present price of gas many families find it cheaper and decidedly more cleanly and convenient to use gas as fuel than either coal or wood; and the apparatus manufactured by this company fills the requirement.

BROWN BROS.,

Manufacturing Stationers, Toronto, presented a most elegant display of account books, caligraph typewriters, Edison mimeographs, etc. The specialties of this company are account books manufactured by them under the Workman patent and the Kinnard patent. These books open flat, and free from any strain on the sewing, and are very strong and durable. Some of the exhibits of these books were made for some of the largest mercantile and banking concerns in Canada. They also showed lines of various kinds of binding, stationary and office supplies, leather goods—bill cases, etc.

SHURLY & DEITRICH,

Galt, Ont., had on display in Main Building the show case and magnificent equipment of saws, etc., that had excited so much admiration at the Chicago Exhibition. Shurly & Dietrich are the large est manufacturers of saws in Canada, and one of the best known and

est manufacturers of saws in Canada, and one of the best known and most celebrated in the world. For years they have found a good market for their goods in the United States.

They also showed the Adam Dunn patent lawn rake, manufactured by them, which, it is claimed, is the only rake made that will remove dandelion heads, or any other weeds of like nature, and by preventing them from maturing and reseeding will in a season or two completely cradicate them from the lawn. The blade is made of the financial world works.

est quality of steel, and is light and durable.

No charge made for these notices,

LYON, SILVERMAN & CO.,

Montreal, through their Toronto agents, McNichol, Hooey & McGreatrex, exhibited lines of druggists' and grocers' sundries, flavoring extracts, perfumery, etc., manufactured by them.

HARVARD CHAIR CO.,

Toronto, displayed in the Main Building a finely finished specimen of the physician's and surgeon's chair manufactured by them. It is simple in its appearance, and little suggestive of its various uses. It is readily adapted to any position in which the human body can be placed. The principle upon which the chair is made to turn upon its base, and capable of either a lateral or backward motion, will be appearanced but the profession as wort important. recognized by the profession as most important. All parts are made to work in harmony or separately.

TORSION BRAIDED WIRE SPRINGS.

D. W. Thompson & Co., Toronto, made a display in Main Building of torsion braided wire springs manufactured by The Weston & Wells Mfg. Co., Philadelphia. These springs are now used by nearly all the large carriage manufacturers in the United States, and are rapidly gaining popularity in Canada. They make a perfectly level surface to support the upholstering, and are easily and quickly applied.

THE CANADIAN RUBBER CO.,

The head office and factory of this concern are at Montreal, the office of the Western Branch being in Toronto, under the management of Mr. J. H. Walker. They had a characteristic display in Main Building which included the Forsyth seamless rubber belting. Main Building which included the Forsyth seamless rubber belting, seamless tube hose, rubber packing, valves, gaskets, etc., also full lines of rubber boots and shoes. This company gives special attention to the manufacture of rubber belting for elevators, mills, factories, workshops, etc., and are selling large quantities of it for such use. The standard of these goods is exceedingly high, this belting being fully equal to any manufactured in America. The factory of this company in Montreal gives employment to about 1,000 hands, the yearly output being valued at about \$2,000,000.

ROE

Iron Founders and Machinists

WATER WHEELS, ENGINES AND MILL MACHINERY A SPECIALTY



`he . . Standard Nater..

heel-



Made in sizes from 6 inches to 24 inches diameter. Wheel One Solid Casting. 94 per cent of power guaranteed: In Five Pieces. includes whole of case, either register or cylin.'er gate.

Water put onfull gate or shut completely off with half-turn of hand wheel, and as easily governed as any engine,

Write for Estimates, References and Catalogues of the STANDARD WATER WHEEL, also Milled and Rough Gearing of every size and description; Engines, Mill Machinery and Electric Power Plants; Latest Improved Band. Saw Brazing Tables; Shears and Gummers, also Surface Grinder for Shingle Saws.

THE KEITH & FITZSIMONS CO.,

Toronto, made a beautiful exhibit in Main Building of gas fixtures and artistic brass work manufactured by them. Some of their electric light fixtures were exceedingly handsome.

CHAS. BOECKH & SONS.

Toronto, are probably the largest manufacturers of brushes, brooms and house furnishing goods, machine brushes, paint brushes, etc., in the Dominion. This concern made two very excellent and attractive exhibits at the Exhibition—one in Main Building where full lines of brooms, brushes and household utensils were shown—the other in Dairy Building which included churns, butter working machines, butter moulds, etc.

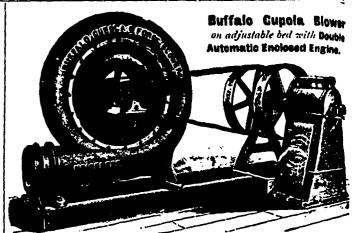
WINDSOR SALT WORKS,

Windsor, Ont., a concern with a capacity to manufacture a thousand barrels of salt per day, had an exhibit in Main Building which displayed a large variety of packages of their salt put up specially for family use; and in Dairy Building where not only their extra fine and tine table salt was shown, but also dairy salt and cheese salt. This salt is manufactured by vacuum process and consists of finely sifted natural crystals which will not cake in damp weather.

AMERICAN RATTAN CO.

The American Rattan Co., Toronto, exhibited in the Main Building one of the most beautiful lines of rattan goods ever shown in Canada, the display occupying a liberal space. The management of this company is in the hands of Mr. C. G. Pease. The company is connected with two similar concerns in the United States, who employ the best artists to be found anywhere in the production of new designs in rattan work, of which the Toronto factory has the instant and full advantage. These goods are on sale in all the best house furnishing establishments in the country.

This company have recently gone into the bicycle business, and included in their display were a large number of elegant and serviceable wheels. They are convinced that high grade wheels are always cheapest in the end, and this is the character of the wheels that this company handle.



Buffalo Dry-Kilns, Shaving Fans, Forges, Blowers, Exhausters, Blacksmith Drills, Etc.

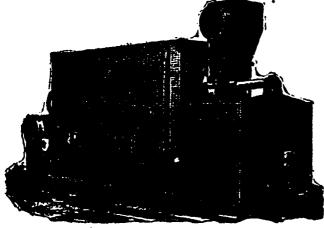
Are described in Sectional Catalogues FREE on application.

Their Efficiency, Smooth Running, and Durability are Unsurpassed

BUFFALO FORGE CO., Buffalo, N.Y., U.S.A.

H. W. PETRIE, Toronto Representative, Toronto. Ont. CANADIAN MACHINERY & SUPPLY CO., Brantford, Brantford representatives. Chicago Office:—22 & 24 West Randolph St.

Labor Dispensed With; Very Little Fuel Used; No Break Downs; Superior Product Obtained; Clay Dried Summer and Winter Rain or Shine, Are a Few of the Special Advantages Obtained by using the



CUMMER CLAY DRYER

....SIX SIZES MADE....

Prepares from 3 to 20 Tons of Clay per hour for dry pan or pulverizer. The clay is handled mechanically (without men from bank to press or other machines. Dryers and Hot Air Apparatus can be seen in Daily operation in largest manufacturies in Canada.

NEW METHODS.

DRIES

Phosphate, Sand, Earths, Paint Stocks, Peat, Lignite, Coal, Salt. Marl and Clay for Cement making, Chalk, Cercals of all kinds, Tankage, Night Soils, Animal Manure, etc., etc.

CALCINING AND ROASTING MACRINERY

for Gypsum, Ores, of all kinds, Phosphate, Paint Stocks, etc., etc.

THE F. D. CUMMER & SON CO.,

613-816 Arcade,

Send for our New Cata'ogue. CLEVELAND, OHIO, U.S.A.

CHARLES ERITH & CO., No. 70 Gracechurch St. London, E. C.

GOOLD BICYCLE CO.,

Brantford, Ont., exhibited full lines in Main Building of their Brantford breydes, supplies, etc. These wheels are well known and possess excellent merit.

J. B. SNIDER,

Successors to the Graybill Mfg. Co. Waterloo, Ont., made a good display of office desks, etc. shown that is very popular. It is an excellent article.

THE YANKEE SIGN CO.,

Niagara Falls, Ont., displayed attractive lines of signs manufac-Augara rans, Ont., aisplayed attractive lines of signs manufac-tured by them, including signs for offices, hotels, streets, factories and general advertising purposes, made in aluminum, brass, bronze, etc., finished in metallic and enameled colors.

COULTER'S VAPORIZER.

Dr. C. L. Coulter, Toronto, made an exhibit in Main Building which attracted much attention, consisting of his patent combined medical vaporizer and inhaler. In medical practice the article is valuable inconverting medicines to a vaporous condition and therefore easy of introduction into the lungs; and it can also be used for deodorizing and disinfecting sick rooms, hospitals, public buildings, sallway carriages, etc. milway carriages, etc.

CHEELMAN BROS.,

Georgetown, Ont., showed in operation in the Main Building the Georgetown, Ont., showed in operation in the Main Building the hand and power knitting machines manufactured by them. There was a full variety of machines for hosiery manufacturing, among which were automatic rib-top and automatic plain machines. They also exhibited a full line of ribbing machines for seamless hosiery and with both transfer cone dile rivers and flat dile rivers. They supply full equipment for hosiery manufacturing, such as steam winders, steam presses, glove and mit machines, etc. No charge made for these notices.

COLIN MCARTHUR & CO.

Montreal, manufacturers of wall paper, made a very handsome exhibit of their products in Main Building. These papers were of new and stylish patterns and in great variety.

THE WILSON FIRE EXTINGUISHER CO.,

Toronto, made a display in Main Building of the portable chemical fire extinguishers made by them, and most successful exhibitions of which were made each day in front of the Grand Stand where temporary structures had been erected, saturated with coal oil, which, when set on fire, was very quickly extinguished by these machines. They should be invaluable in factories and warehouses, as well as in residences.

IMPORTANT NOTICE

MONTREAL, SEPT. 21st, 1894.

- 1 It having come to my knowledge that other firms in Canada are manufacturing a stick fast belt dress-
- ing, and saying it is the same as RIDOUT'S STICK FAST BELT DRESSING, in fact, go so
- far as to say they are manufacturing it for us, 1 beg leave to say there is no one in Canada making
- my Belt Dressing, and the other article is put on the market to try and injure the reputation I
- have secured, and is in no way equal to mine. I am the Sole Manufacturer in Canada of Stick Fast
- Belt Dressing, protected by my trade mark, which is on every tin, and I beg to warn my customers and the public that any Stick Fast Belt Dressing,
- which is sold without my trade mark, is a worth-
- 137 less imitation of mine.

HORACE R. RIDOUT, 22 John Street, Montreal.

Armington & Sims

AUTOMATIC HIGH SPRED ENGINES

ELECTRIC LIGHTING

-42D-

GENERAL FACTORY PURPOSES

Perfect Regulation and Highest Economy.

Steam Pumps SHAFTING, PULLEYS -AND-

Ceneral Machinery

& Whitfield

HAMILTON, ONT.

THE WEBBER PATENT

Straitway Valve

FOR

STEAM, WATER OR GAS

EVERY VALVE TESTED

THE KERR ENGINE GO. (LTD.)

WALKERVILLE, ONT.

Solo Manufacturers for Canada

Send for Price List

Electric Co'y

MANUFACTURERS OF



DYNAMOS

ARC AND INCANDESCENT LICHTING,

Plating Machines, **Medical Batteries**

AND ALL KINDS OF

ELECTRIC APPLIANCES

HAMILTON, ONTARIO

THE PETERBOROUGH

CARBON € PORCELAIN CO.

MANUFACTURERS OF

Carbon Points for All Systems of Arc Lights

BATTERY PLATES, CARBON BRUSHES, and all kinds of PORCELAIN for Electrical and Hardware Lines.

All goods guaranteed equal in quality to the best manufacturers in the world.

PETERBOR JUGH. ONTARIO

KNECHTEL FURNITURE CO..

Hanover, Ont., exhibited their patent Peerless extension dining table which embodies some unique features.

ONTARIO GLOVE WORKS.

Brockville, Ont., presented an attractive exhibit in Main Building of a large variety of gloves, mitts, etc., manufactured by them. They also exhibited their new Chester suspender. These are all first-class goods.

NOVELTY MFG. CO.,

Newmarket,Ont., showed in the Main Building extensive lines of toy novelties, including sleds, clippers, sleighs, doll cabs, boys' bicycles, girls' tricycles, etc. They also manufacture an extensive line of children's carriages.

ACME WHITE LEAD & COLOR WORKS,

Windsor, Ont., and Detroit, Mich., made a good display of their high grade prepared paints. These goods are put up in convenient size packages, ready for use, and are especially adapted for painting houses, barns, etc., and for all inside work.

CHARLES RAYMOND,

Guelph, Ont., who is, we believe, the largest manufacturer in Canada of sewing machines, made a fine display of his New Raymond in the Main, Building. These machines are perfect in operation, beautiful in appearance, and possess all the latest novelties.

No charge made for these notices.

LEE & SEAMAN,

Toronto, exhibited specimens of their Willer patent sliding and folding blinds. Perfection sliding window and door screens, etc.

MENZIE, TURNER & CO.,

Toronto, manufacturers of Imperial window shades, laces, trages, tassels, poles, drapery, etc., had a nice exhibit in Main Building.

*DOWSWELL BROS.,

Hamilton, Ont., manufacturers of clothes wringers, wa hing machines, churns, and household novelties, showed full lines of their products.

EUREKA REFRIGERATOR CO.,

Toronto, displayed specimens of their Eureka refrigerators. They have cleanable flues, are attractive in appearance, and the interioris well arranged.

WHITMAN & BARNES, MFG. CO.,

St. Catharines, Ont. One of the most characteristic exhibits at the Fair was that in Main Building of this enterprising concern. Upona large upright cabinet case with black background was very tastefully arranged specimens of many of the goods made by them, including mower, reaper, and binder knives; sickles, sections, guards and complete cutting apparatus; spring keys and cotters; twist drills, wrenches, thresher teeth; light drop forgings, etc.

EAGLE FOUNDRY

Established

...GEORGE BRUSH...

14 to 34 King and Queen Streets, - Montreal

. Maker of . .

STEAM ENGINES, HOISTING ENGINES. STEAM BOILERS, STEAM PUMPS.

Circular Saw Mills, Bark Mills, Shingle Mills, Ore Crushers, Mill Gearing, Shafting Hangers and Pulleys.

Safety Elevators and Holets for Warehouses, Etc.

HEINE SAFETY STEAM BOILERS

Blake "Challenge" Stone Breaker.

E. LEONARD & SONS

LONDON - - - CANADA

MANUFACTURERS OF

ENGINES AND BOILERS

(NEW DESIGNS)

STEAM PLANTS EQUIPPED FOR ALL PURPOSES

Highest Economy, Regulation Perfect. Send for Circular. Interviews Desired.

THOS NOPPER, - - - Sales Agent

79 YORK STREET, TORONTO, ONT.

THE CHLORIDE ACCUMULATOR

The Electric Storage Battery Co.

SOLE AMERICAN MANUFACTURERS OF

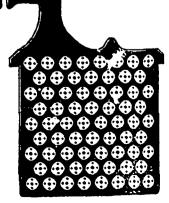
The Chloride Accumulator

Elements of all sizes, from 1000 to 1,000 Watt-hours capacity each.

Traction Gells a Specially

Electric Launch Equipment, Telegraph Phonograph, Surgical and all

Drexel Building - Philadelphia



JAMES LOCHRIE,

Toronto, manufacturer of the Antelope bicycle, displayed a number of these attractive wheels in Main Building.

THE BARBER & ELLIS CO.,

Toronto, made an attractive display in Main Building of specimens of book-binding, etc., done by them; also of lines of celluloid and other fancy boxes, cases, etc.

THE NEW LIGHTING CO.

* Toronto, made a brilliant display of their new light in Main Building which attracted much attention. The production of this light is on scientific principles, giving good results at small expense.

TORONTO FEATHER & DOWN CO.,

Presented a nice display of beds, pillows, cushions and quilts made of feathers and down prepared by them. Their system of renovating feathers makes them clean and wholesome.

CHARLES GURD & CO.,

Montreal, manufacturers of aerated waters, etc., made a good show in Main Building, which included Regal seltzer, lime juice cordial, Caledonia water, Belfast ginger ale, etc. McNichol, Hooley & Greatrex, are Toronto agents.

WROUGHT IRON RANGE CO.,

Manufacturers of Home Comfort wrought steel hotel and family cooking ranges and kitchen outfits, made a beautiful display of their goods in Main Building, the articles shown being of identical character with those displayed at the Chicago World's Fair. The general offices of this concern are at St. Louis, Mo., the Canadian branch factory being at Toronto.

No charge made for these notices.

TORONTO WIRE AND IRON WORKS,

George B. Meadows, proprietor, made a display of his products in Main Building, including artistic iron and brass bank and office railing, store and window fittings, etc.

ALASKA FEATHER & DOWN CO.,

Montreal, made a very attractive display of the beds, pillows, eashions and quilts manufactured by them. The colder the weather the greater the esteem in which these goods are held.

COULTER & CAMPBELL,

Toronto, manufacturers of distillers', brewers' a 'confectioners' brass and copper work, copper range boilers, wash boilers, etc. made a fine show of their products in Main Building.

CANADIAN OFFICE & SCHOOL FURNITURE CO.,

Preston, Ont., had a handsome exhibit in the Main Building, where specimens of office desks of most approved designs, office furniture, school desks, church furnishings, etc., were shown.

W. MILLICHAMP, SONS & CO.

Toronto, made an excellent display of bank stoves and office interior fittings; also of mantels, over mantels, tiles and grates, which were very beautiful. They are large manufacturers of these goods.

RAMSAY & AITKEN,

Toronto, displayed lines of Nonpareil ratchet wrenches and combinations which did not fail to attract the attention of engineers and machinists. These goods were the product of the Keystone 34fg. Co.

"STARR"

Incandescent Lamps..







fuil Candle Power.

Long Life.

Low Price.

Made of any Candle-Power and Voltage, and with bases to suit the different sockets in use.

Unrivated Quality. -:- High Efficiency.

Write for Quotations, stating Voltage and Base used.

JOHN STARR, SON & CO.

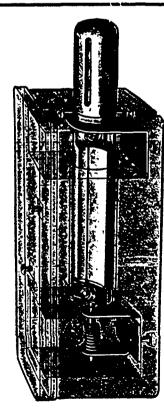
(LIMITED)

... Halifax, N. S...

Illustrated Catalogue of Electrical Supplies on Application.

The Packard Transformer





Packard Transformer Fuse Box Complete

Packard Lamp Co., Ltd.

=;=

Montreal

Makers of Packard Lamp and Transformers.

SNOWBALL WAGON CO.,

St. George, Ont., had four of their fine wagons on exhibition in the Wagon Building, one of which was shown in the natural wood. The Snowball wagon is made in all styles to meet demands, and is first class in every respect.

ADAMS & SON,

Proprietors of the Paris Wagon Works, Paris, Out., presented in the Wagon Building several fine specimens of their Adams patent truss skein farm wagons which excited much favorable notice. These wagons are made in all the different styles necessary to meet the demands of users. They also make wagons, lorries, etc., for heavy city traffic, low-wheeled farm trucks and logging trucks, Manitoba sleighs, bob sleighs, etc.

THE CANADA CARRIAGE CO.,

Late the Gananoque Carriage Co., whose extensive factories are at Brockville, Ont., and Gananoque, Ont., are manufacturers of some of the most elegant vehicles to be seen in Canada, and some beautiful specimens of these were to be seen on exhibition in the Carriage Building. The company have a fine wareroom on Bay Street, Toronto, under the management of Mr. John N. Lee, where these carriages are kept for sale.

NEWLANDS & CO.,

Galt, Ont., show a number of specimens of their Saskatchewan buffalo robes in the Carriage Building. When the buffalos disappeared a few years ago from their haunts on the Western prairies it was believed that no substitute could ever be found to take the place of its pelt or skin, which had proved so valuable for general purposes as a r be in our northern climate, where warmch and durability are great necessities. Fur robes are too expensive and cannot be obtained in large numbers. Goatskin robes have not the warmth nor yet the durability, and in addition their smell is objectionable. Many substitutes for the almost invaluable buffalo robe have been tried, but all failed to fill the want until Newlands & Co., of Galt, invented their now well-known Saskatchewan buffalo robe. It took three years to develop and perfect this article so as to give the many good qualities which are essential in a good robe. The invention has had five years' trial, and has been tested in all kinds of weather, and the verdict is, that five years of rough, general usage does not injure them any more than it would have done the old buffalo skin. The Saskatchewan buffalo robe has the following good qualities: It is as strong as any leather, it is handsome, soft and pliable; it is warmer, with lambskin lining, than a buffalo robe; it is imprevious to wind, also to moths; it is easily dried after having been wet. It is made in three sizes, lined with a handsome durable and warm lambskin lining, either in scarlet or black, and is suitably trimmed. In addition to the manufacture of cuffalo robes Messrs. Newlands & Co. make a specialty of buffalo boats, and also black astrachan coats.

No charge made for these notices.

J. CRUICKSHANK & SONS,

Weston, Out., exhibited specimens of their detachable spring $t_{\rm amp}$ wagons in the Wagon Building. They are well built of good materials. This concern also build fine business wagons of all kinds, $b_{\rm ing}$ gies, etc.

WESTERN WHEELED SCRAPER CO.

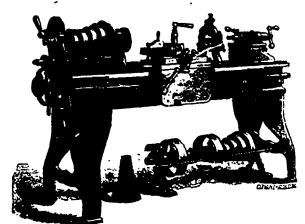
One of the most interesting exhibits shown on the lawn was that of the rock crusher manufactured by the Western Wheeled Scraper Co., Aurora, Ill., for whom H.A. Brownell, London, Out., is general Canadian agent. Judging from the manner in which this machine crushed the rock and small boulders fed to it, it would be of great value in making macadam for road building and similar purposes.

ESTABLISHED 1850

Robert Gardner & Son,

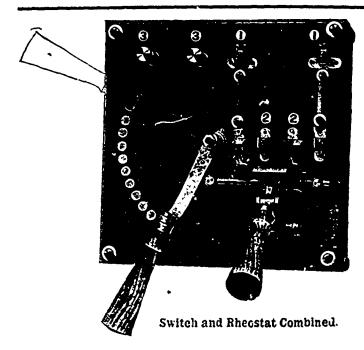
MANUFACTURERS OF

Fine Tools, Lathes, Planers, etc. Shafting, Hangers & Pulleys, etc.



Nazareth, Brennan & Dalhousie Sts.,

MONTREAL.



PROTECT YOUR MOTORS

...By using the....

HILL PATENT Self=Locking Starting Switch

Mo possible chance for an accident as the Switch cannot be closed until the resistance is all in.

CHEAP • COMPACT •

DURABLE

.... Made only by the

W. S. HILL ELECTRIC CO.

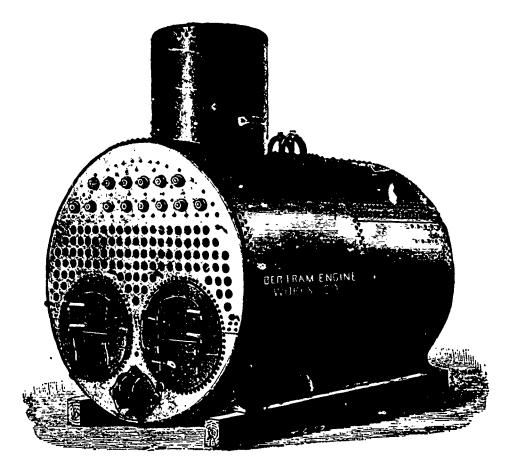
133 Oliver St., Boston, Mass. send for circular and price List.

BK

NEW YORK Elson & Brewster, 143 Liberty St. CHICACO Contral Electric C

The Bertram Engine Works Co., Ltd.

- - - Engineers and Boiler Makers. - - -



BEST EQUIPPED PLANT IN THE DOMINION.

... FOR THE CONSTRUCTION OF....

Marine Engines and Boilers,

Corliss and Vertical Engines,

Steel and Composite Yachts & Steamships.

CASTINGS & GENERAL MACHINERY.

The Bertram Engine Works Co., Ltd.

Bathurst and Niagara Sts. TORONTO, CANADA.

THE BAIN WAGON CO.,

Woodstock, Ont., are manufacturers of first class farm and business wagons, and specimens of these were shown in the Wagon Building. Their "Woodstock Bain" wagon received much favorable comment.

CHATHAM MANUFACTURING CO.,

Chatham, Ont., D.R. Van Allen, manager. A Toronto Fair without the presence of Mr. Van Allen and his display of Chatham wagons would be like the play of Hamlet with that celebrated character omitted. The display in the Wagon Building this year comprised eight specimen vehicles, two very fine ones finished in natural wood, without paint; one heavy dray, built for the Royal Oil Co., Toronto; one coal cart; one combination wagon including wagon box, hay rack and stock rack, and two of the wagons shown by this concern at the World's Egir at Chicago, and which were awarded a gold at the World's Fair at Chicago, and which were awarded a gold medal and diploma. The following letter written by O'Brien Bros., St. Mary's, Ont., explains the merits of one of the wagons made by

this concern :-

DEAR SIRS: - In reply to yours of the 11th inst., re the wagon test here, we beg leave to state that the wagon on which the wager was laid was a No. 3 Chautauqua Giant, one of your make, which we showed at the Spring Fair. Five tens and a half was the stipulated load; and the load of pig iron as weighed on the town scales was 11,060 lbs., drawn for a distance of a mile up hill and down, over cobble stone paved streets, high stone street and two R.R. crossings. Preachers, lawyers, doctors, bankers and farmers followed, and shoved when the four horses felt weary. The excitement was high and the roads heavy, as it rained the night before. Barnum's circus wasn't in it for drawing the cowd that followed us. The wagon stood the test, and came ont all right. It is the best advertisement you ever had in this locality. We are pleased that the wagon stood the trial, as it was prophesied that it would collapse within one hundred and fifty yards of the starting point. It did not do it, and the local wagon makers are not as pleased as we are for some reason or other; why we can't say. The wagon was sold at once to Edward Mills, Devizes P.O., Middlesex Co., who is using it daily and is well pleased with it. Hoping that we may always get as good wagons as that Chatauqua Giant and that we may meet many men desirous of laying wagers on their strength, we are, Yours truly, O'BRIEN BROS.

No charge made for these notices.

E. C. DANIELS,

Orangeville, Ont., had his patent folding hay and stock rack or exhibition on the lawn. It can be quickly changed from hay to stock rack, and vice versa, and can be folded up like a book when not in

CANADA FENCE CO.,

London,O. nanufacture the Casey Diamond Grip, and the double lock wire fences, specimens of which they displayed on the lawn. These fences are well adapted for farm, railroad, cemetery, garden and lawn.

GEORGE DICKIE & SON,

Hyde Park, Ont., exhibited their I.X.L. wire adjuster, for tightening the strands of wire fencing whenever it may be necessary. It was convenient contrivance, and its efficiency as well as cheapness are its strong recommendations.

GOOLD, SHAPLEY & MUIR CO.,

Brantford, Ont., made a fine exhibit on the lawn of their steel wind mills and towers, pumping wind mills, four post and three angle sted towers, round and square, water tanks, feed grinders, root pulper, straw cutters, iron pumps, etc.

ONTARIO PUMP CO.,

Toronto, manufacturers of the Halladay Standard pumping and geared wind mills, etc., made a good display on the lawn of their specialties. These wind engines are made in all popular styles and to meet all demands for such machinery.

HAMILTON & TORONTO SEWER PIPE CO.,

Whose head offices are at Hamilton, Ont., made a comprehensar exhibit of sewer pipe, chimney tops, and similar goods on the law near the Agricultural Implement Building. These are standard goods and in use in about every city and town in Ontario.

Second-Hand ENGINES

In Good Condition, for sale low.

50 II.P. Corliss. 50 H.P. Automatic Ball (American.) 60 H.P. Automatic Leonard-Ball. 50 H.P. Automatic Armington & Sims. 25 H.P. Automatic Westinghouse.

Replaced by Robb-Armstrong Engines

Robb Engineering Co., Ltd., Amherst, N. S.

....DON'T MISS SEEING....

The J. B. ARMSTRONG

-SPECIALTIES IN-

Fine Buggies, Carriages and Cutters,

....AT....

TORONTO, LONDON, QUEBEC AND OTTAWA **EXHIBITIONS.**

J. B. ARMSTRONG MFG. CO. LTD. **GUELPH, CANADA,**

Suspender Buckles

Wire Shapes OF All Kinds.

We have put in a complete plant of AUTOMATIC MACHINERY for making above articles. . . .

Write Quotations for

McKinnon Dash & Hardware Company St. Catharines, Ont.

The Largest Factury of the kind in the Dominion

Lion "L" Brand

PIRE GOODS

MONEST GOODS

Le. ling Dealers from Ocean to Ocean Handle These Goods.

Pure Vinegars, Rixed Pickin Jams, Jell'es and Preserves.

Michel Lefebyre & Co. Man'fre, MONTREAL, QUE.

Also BEET SUGAR Manufacturers at Berthierville, Que. ESTABLISHED 1849.

Gold, Silver and Bronze Medals



"L" Brand.

CHAMPION IRON FENCE CO.,

Toronto, had a portion of the lawn decorated with different styles of iron fencing, gates, etc., manufactured by them.

R. & W. LONGSTAFF,

Weston, Ont., made a conspicuous display on the lawn of the pumps, wind engines, etc., manufactured by them. These articles are specially intended for use on farms, in stock yards, etc.

D. PLEWS & CO.,

Toronto, manufacturers of wind engines, pumps, etc., exhibited specimens of their products on the lawn. Among other machinery their wind engines for grinding, chopping, sawing, pumping, etc.

No charge made for these notices.

EMERSON & CAMPBELL,

Tweed, Ont., exhibited on the lawn their patent hay-carrier and slings, also a swivel hay fork carrier, for handling hay, etc.

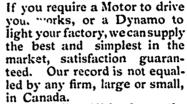
THE WOODSTOCK WIND MOTOR CO.,

Woodstock,Ont., exhibited specimens of their wind power machinery on the lawn. The power was applied for pumping water, grinding grain, cutting feed, sawing wood, etc.

ONTARIO LEAD AND BARB WIRE CO.,

Toronto, manufacture a barbless truss cable fencing which was exhibited on the lawn, and which commended itself very strongly because of its neat and durable appearance. It is well adapted for farm purposes, and is exceedingly ornamental when used on city lawns, yards, gardens, etc.

No Equal or No Sale



Call or Write for particulars.

Toronto Electric Motor Co., 107 Adelaide St. West Toronto, Ont.



IES and - Pipe : :

Write for Latest Prices.

RICE LEWIS & SON

(LIMITED)

Cor. King and Victoria Sts.

TORONTO.

Black Sheet Iron, all sizes.

Sheet Steel, Ordinary & Dead Flat.

Russia Iron, Genuine and Imitation.

M. &L. SAMUEL, BENJAMIN & CO.

30 Front Street West, Toronto

ENGLISH HOUSE: SAMUEL, SONS & BENJAMIN 184 FENCHURCH ST., LONDON, E.C.

SHIPPING OFFICE

1 RUMFORD PLACE, LIVERPOO L

....THE.....

Goldie & McCulloch Co., Ltd., Galt, Ont.

.. MANUFACTURERS OF....

STEAM ENGINES - BOILERS - WATER WHEELS,

Steam Engines, Boilers.

Water Wheels, Flouring and Saw Mill Machinery, Wood Working Machinery, Wool Machinery.

"Dumfries Foundry,"

Fire and Burglar-Proof Safes, Vault Doors.

Wood Rim Split Pulleys, Friction Pulleys, Friction Clutch, Couplings., etc.

Galt, Ont., Canada.

BAIN BROS. MFG. CO.,

Brantford, Ont., exhibited in the Wagon Building numerous specimens of the wagons manufactured by them, noticeable among which was their "Moses" farm truck, an exceedingly convenient low-wheeled farm wagon, so built that it can be turned within the length of the body. It is made for either one or two horses.

THE PEDLAR METAL ROOFING CO.,

Oshawa, Ont., occupied their own building on the main avenue, where they made an interesting display of their sheet metal goods. These consisted chiefly of the Pedlar patent metallic shingle, patent metallic ceilings in 15 styles, corrugated iron siding for elevators, barns, warehouses, factories, etc., ornamented and plain ridging, eave-troughs in many styles and sizes, 8-foot lengths, corrugated conductor pipe in 8-foot lengths, etc. This display was very attractive.

FOUNDRY =:=

=:= FACINGS

Ceylon Plumbago Foundry Supplies, Fire Brick, Fire Clay and Moulding Sand.

CANADIAN AGENTS FOR

Colliau Cupola Furnace.

Hamilton Facing Mill Co.

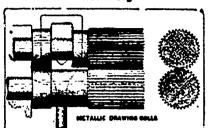
HAMILTON - - - Ontario

The Greatest Invention in Cotton Spinning Since Arkwright's Time-

Now in general use in OLD FRAMES, and being applied to New Machinery.....

TO LEARN ALL ABOUT IT, write to

write to



TO LEARN ALL ABOUT IT,

write to

THE METALLIC DRAWING ROLL CO.

.. Indian Orchard, Mass..

SOLE PATENTEES, Exclusive Owners and Only Manufacturers for United States and Canada

CAUTION—The patents held by this Corporation cover every description of metallic rolls as separated or adjusted as to perform the function of drawing or elongating the there of cotton or other material preparatory to twisting or spinning the same. Consequently who ever makes, sells, or offers for sale, or uses, or has in his possession any infringing device with intent to use the same, will be promptly prosecuted to the utmost extent of the law for damages.

Our Motto on EMERY WHEELS

"LARGE CONTRACTS, QUICK SALES and SMALL PROFITS"
For an A NO. 1 Wheel

ALSO THE LARGEST and BEST LINE OF EMERY WHEEL MACHINERY in the U.S. Catalogue furnished upon application.

The Springfield Emery Wheel Co.

Bridgeport, Conn.



TANITE MILLS

Emery, Emery Wheels, Grinding Machines, Polishes, Etc.

taick Process and Large Stock.

Special Inducements suited to our Stock and the Times

THE TANITE COMPANY, STROUDSBURG, Monroe Co., Pa.
NEW YORK, 161 Washington Street.
CINCINNATI, 1 West Pearl Street.

WIRE ROPES....

Crucible Cast Steel Ropes for Hoisting, Inclines, Mines, Etc. Siemens-Martin for Transmission of Power, Elevators, and Hoists, etc....

Galvanized Ropes, for Derrick Stays, Ships Riggings, Etc.

WRITE FOR CATALOGUE and PRICELIST.

......TIANUFACTURED BY......

The B. GREENING WIRE CO., Ltd., Hamilton, Ont.

J. W. ANDERSON,

Aylmer, Ont., is patentee and manufacturer of an excellent double acting hand force pump which he exhibited on the lawn.

PAGE WIRE FENCE CO.,

Walkerville, Ont., manufacturers of the Page coiled spring woven wire fencing, made a splendid exhibit on the lawn. This is a smooth fence that will turn any kind of stock. It is made from the best hard steel wire. Some of its points of excellence are : It is neat, tidy, efficient, cheap. It needs but few posts. It does not burn up. It does not blaw down. It does not bank snow. It does not break in winter. It does not sag in summer. It does not injure stock. It is durable. It is pig tight, bull strong, horse high. It is just the fence for railroads or for farmers and land owners, who like to feel that their stock and crops are both secure.

METALLIC ROOFING CO..

Toronto, occupied a handsome little building on the main avenue of the Fair Grounds, constructed chiefly of the Eastlake metallic shingles and metallic fire proof building materials manufactured by them; and in this building they exhibited specimens of these goods, affording

Emerv **MACHINERY** AND Wheels

Standard Emery Wheel Co., Albany, N.Y.

IMPORTANT TO LIGHTING STATIONS

- OUR NEW - -**Alternating Current Indicators**

Are now ready. Before purchasing elsewhere send for our New Catalogue, which contains the prices and description of the above instruments, and also a list and prices of other new instruments of our manufacture.

WHITNEY ELECTRICAL INSTRUMENT CO'Y. Sherbrooke, P.Q., Canada. Penacook, N. H., U.S.

.. AGENTS .. Henry F. Kellegg, General Selling Agent.

ROSTON MASS., W. S. Hill.
RALTIMORE M.D., The Poole Electric Co.
CHICAGO, H.L., Electric Appliance Co.
CINCINNATI, O., Newothy Electric Co.
HALIFAN, N.S., John Starr, Son & Co. Ltd.
TORONTO, ONT.,
Electrical Works.

No charge made for these notices.

those who desired to do so close inspection of them. But the display was not confined to this small building, for upon the grounds were acres and acres of buildings all covered with the Eastlake shingles made by this company. In fact there are more than fifty different buildings on the Fair Grounds covered with them, including the Grand Stand, which is 700 feet long, and capable of seating some 15,000 people. These brildings would not have been covered with these shingles if those in authority had not believed that they were the very best covering made. Mr. Mark Hall, the architect in the regular employ of the Toronto Industrial Exhibition Association, and who designed about all the buildings upon the grounds, and who specified how they should be constructed, has certified to the Metallic Roofing Company that the roofs covered with those charges have lie Roofing Company that the roofs covered with these shingles have The Roofing Company that the roofs covered with these shingles have given the utmost satisfaction, and that they are the tightest roofs on the Fair Grounds. In corroboration of this Mr. J. J. Withrow, President of the Association, says: "I agree with Mr. Hall's statement as to the character of the roofing material manufactured by the Metallic Roofing Company. They can be used when wood shingles can not be considered, either on the score of appearance or safety against fire. The siding and shingles are ornamental in design, while effective as a fire guard." The company have scores of just such letters, many of them from manufacturers whose factory buildings, warehouses, etc., are protected with this fire proof covering. houses, etc., are protected with this fire proof covering.

The Unexpected Generally Happens.

Have your boiler inspected and insured, it pays to know that you are right.

Don't Trust to Luck. Will Your Boiler Stand the at its Weakest Point? Can you sudge It? the Safety Valves and Steam Gauges Right? Will Your Boiler Stand the Pressure is your duty to take every precaution. Inspec-tion makes you safe. Insurance indemnifies you against loss.



DIRECTORS -E JONES PARKE, Q. C. F. A. FITZGERALD, ESQ., President. Vice-President.

HOH. DAVID MILLS, M. P., JOHN MORISON, ESQ.,

T. H. PURBOM, ESQ., MES LANT, Managor J. M. KILLEY, Cortalting Engineer. JOHN FAIRGRIEVE. Chief Inspector.

Head Office - - - LONDON, ONT.

A Reliable Audit . .

Cannot be expected unless the Inditor has acquired the knack for detecting errors, which comes of long experience with accounts. I solicit your next appointment.

A. C. NEFF, Chartered Accountant, & 32 Church St., TORONTO

The Canadian Canoe Co., Ltd. **BOX 107,** PETERBORO, ONT.



We build Canoes of CEDAR, BUTTEKNUT, BASSWOOD and other woods, for Paddling, Sailing, Racing, Fishing, Etc. Skiffs of all sizes.

STEAM LAUNCHES to carry six persons, from \$175 up. ... WRITE FOR CATALOGUE...

The Largest Radiator Manufacturers Under the British Flag....

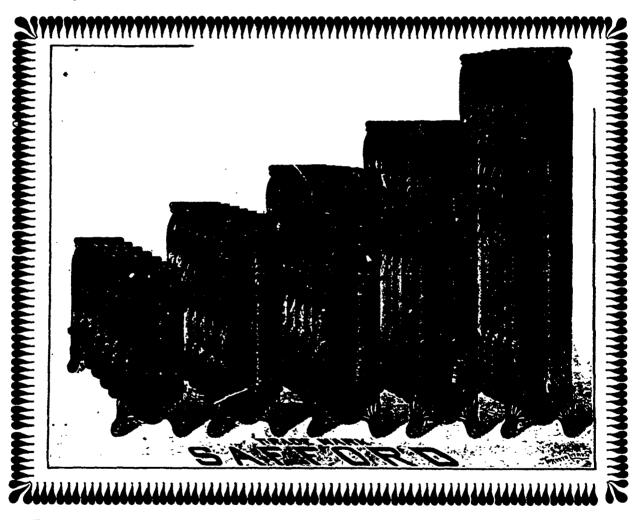
Safford Page Radiators

FOR HOT WATER AND STEAM HEATING.

No Wroughtiron Bolts PACKING Leaky Joints



MOST EFFICIENT BEST CONSTRUCTION ALL IRON TO IRON SCREWED JOINTS LARGEST VARIETY



The Largest and Most Prominent Buildings in Canada are Heated with "Safford Radiators."

RADIATORS

.... Made only by. 1

The TORONTO RADIATOR MFG. CO., Ltd.

. .Branches. .

MONTREAL - QUEBEC

ST. JOHN, N.B.

HAMILTON

WISSIPE

VICTORIA, R.C.

CANADIAN PATENTS.

The following patents have been issued from the Canadian Patent Office, from June 11 to June 25, 1894, inclusive.

Information regarding any of these patents may be had on application as follows :-

Fetherstonhaugh & Co., Bank of Commerce Building, Toronto. Ridont & Maybee, 103 Bay street, Toronto. Central Chambers, A. Harvey, Ottawa. Imperial Building, J. A. Grenier, Montreal.

Copies of American patents corresponding to Canadian patents can be procured from either of these attorneys for the sum of twenty-

46,318 Manufacture of sugar, Jean E. Pelligrini, Barcelona, Spain.

46,319 Pneumatic tire, George Meade and John Gardner, Toronto, Ont., June 11.

46,320 Mucilage, size and adhesive compound, Charles M. Higgins, Brooklyn, N.Y., June 11.

46,321 Line easting machines, Wilber S. Seudder, Brooklyn, N.Y., June ii.

46,322 Mud guard for bicycles, Marius E. Griswold, Chicago, ill., lune 11.

46,323 Process of extracting fluids from mosses, Thomas E. Wallace, St. John, N.B., June 11.

46,324 Electric motor for street cars, Elihu Thomson Swampscott, and Edwin W. Rice, Lynn, Mass., June 12.

46,325 Pyrotechnic railway danger signals, Frank A. Fox, et al, New York, N.Y., June 12.

46,326 Childrens' bib, Mariam E. Raine, Vancouver, B.C., June 15.

WORLD BEATER

SHULTZ & SWARTZ. - GERMANY. -

FRICTION DRESSING

Guaranteed to increase driving power 25 per cent. Used by all the leading Manufacturers and Electric plants in Europe. One application will convince you that this is the greatest belt dressing on earth. Made up in bars from one to five pounds, at 25 cents per Write for samples to

CASSIDY, BONNER & CO.
Leather Belting Manufacturers, MONTREAL.
SOLE AGENTS FOR THE DOMINION.

...JOHN MCDOUGALI

Caledonian Iron Works. for BOILERS. -ENGINES.

Gearing, Hangers, Shafting, etc.

WILLIAM Cor. SEIGNEURS ST., MONTREAL.

Leather

Our "STANDARD" Belting is the BEST made in Canada and SUPERIOR to most imported..... WRITE FOR PRICES

J. L. GOODHUE & CO.

DANVILLE. OUE.

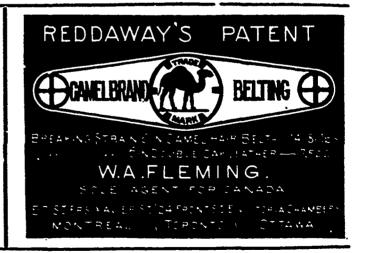
HENRY PORTER

Oak Leather Tanner and Manufacturer of

PURE OAK TANNED

Lace Leather, Goodyear Welting, Bag and Colored Shoe Leather, Carriage, Furniture and Patent Leather Oak, Sole, and Harness Leather.

434 to 442 Visitation St., MONTREAL, Que.





- 46,327 Process of tawing hides or skins, William Zahn, Newark, N.J., June 12.
- 46,328 Tire for the wheels of cycles, Josef T. Poplawsky, Bremerhaven, Germany, June 12.
- 46,329 Car coupler, Frederick Knowlson and William Curtis, Lindsay, Ont., June 12.
- 46,330 Centrifugal creamer, Olof Ohlsson, Newark, N.J., June 12.
- 46,331 Blower, George A. Spang, Tonawanda, N.Y., June 12.
- 46,332 Machine for eleasing boot and shoe uppers, George Knight, Brocton, Mass., June 12.
- 46,333 Art or process of purification and decoloration of saccharine solutions, Peter H. Vander Weyde and Orazio Lugo, New York, N.Y., June 12.
- 46,334 Safety bicycle stand, Clayton J. Whipple, Waterloo, Ia., June
- 46.335 Manufacture of hygienic garments, Ferdinand Linneborn, Hagen, Germany, June 12.
- 46,336 Trolley arm, Arthur H. Smith, London, Ont., June 12.
- 46,337 Manufacture of hard soap, Natali Osuchowski, Varsovia, Poland, and Alexander S. Zavierzchowski, Paris, France, June 11.
- 46,338 Cover for receptacles for butter and other articles, Henry C. Carter, East Orange, N.J., June 12.
- 46,339 Manufacture of emery wheels, grindstones, hones, millstones, and the like, Olaf Tarp, Forest Hill, Surrey, England, June 12.
- 46,340 Production of artificial crystalline carbonaceous materials, Edward .G Acheson, Monongahela City, Pa., June 12.
- 46,341 Reel carrier, William M. Barger, Webster City, In., June 12.
- 46.342 Potato digger, Charles H. Hall, Glidden, Wis., Almond D. Hall, et al, St. Louis, Mo., June 13.
- 46,343 Lamp, The Ross-Atkins Oil Lamp Co., Birmingham, England, June 13.
- 46,344 Gas governor, Silas H. Moore, et al, New York, N.Y., June 13.
- 46,345 Railway tile plate and method of making same, The Q. and C. Company, Chicago, Ill., June 13.
- 46,346 Padlock, Benjamin F. Loughmiller, Aspen, Col., June 13.
- 46,347 Brush making tool, McClintock Young, Frederick, Md., June
- 45,348 Self locking cleat for electric wires, Elias Nashold and Henry W. Baskette, Chicago, Ill., June 14.
- 46,349 Stove back, Fay O. Farwell and The Adams Co., Dubuque, In., June 14.
- 45,350 Cigarette machine, Edward P. Pollard, New York N.Y., June 14,
- 46,351 Sole and heel plate, John T. E. Nelson, Cedar Home, Wash., June 15.

- 46,352 Fruit drier, Mary J. Richmond, Republic, Mo., June 15.
- 46,353 Nut lock, James McCormick, Sudbury, Ont., June 15.
- 46,354 Air brake for railway trains, Andrew Reid, Saginaw, Mich., June 15.
- 46,355 Starching machine, Allen Conkling, Chicago, Ill., June 15.
- 46,356 Hay carrier track, James W. Provan, Oshawa, Ont., June 15.
- 46,357 Fifth wheel, Garland B. St. John, Kalamazoo, Mich., June 17
- 46,358 Material for applying oil to axle bearings, George J Chur, ward, Swindon, Wiltshire, England, June 15.
- 46,359 Rack for holding hats, canes, umbrellas, shawls, etc., George Philion, Mishawaka, Ind., June 15.
- 46,360 Wood sawing machine, Charles Bilbrough, Markham, Ont., June 16.
- 46,361 Air brake, Moses L. Rothschild, Chicago, Ill., June 10.
- 46,362 Chair, James Mehan, Cartier, Ont., June 16.
- 46,363 Stove and Furnace, etc., Thomas Austin, Brooklyn, N.Y., June 16.
- 46,364 Disinfecting oven, Olaf Baumback, Copenhagen, Denmark, June 16.
- 46,365 Fence wire tightener, Isaac K. Hollinger, Grenville, O., June
- 46,366 Potato bug sprinkler, John Lashbrook, Stratford, Ont., June 16.
- 46,367 Electric brake, Francis N. Denison, Toronto, Ont. June 16.
- 46,368 Card packet, Percy L. Fison, and Hartley Illingworth, Ripon, York, England, June 16.
- 46,369 Pneumatic carrier. Wilson Phillips and John McCleary, Terronto, Ont., June 16.
- 46,370 Metal scraping tool, John A. Rennie, Bathurst, N. B., June 16.
- 46,371 Vegetable parer. Addison M. Mundell, Paola, Kansas, June 18.
- 46,372 Steam boiler, John Hazlett, Kingston, Ont., June 18.
- 46,373 Ferret and hook for the back of harnesses, Edward J. Harris Neepana, Man., June 18.
- 46,374 Combined reel and lawn sprinkler, Wm. L. Van House and Morton Yount, Norfolk, Neb., June 18.
- 46,375 Lamp, Frederic E. Baldwin, New Brighton, N.Y., June 18.
- 46,376 Land Roller, David Smith, Holland, Ont., June 18.
- 46,377 Hernia truss, Charles Cluthe, Toronto, Ont., June 18.
- 46,378 Automatic scale weighing machine, Ernest C. Chard, Chelsea, Middlesex, England, June 19.
- 46,379 Plough, Andreas Mechwart, Budapest, Hungary, June 19-
- 46,385 Apparatus for indexing, Edgar A. Goddin, Stoke Newington, County of London, England, June 19.
- 45,381 Process of vulcanizing wood, Henry L. Rutherford, Montreal, Que., June 19.

Wm. J. Matheson & Co. 🛭

423-425 ST. PAUL ST., MONTKEAL

ALSO AT

NEW YORK, BOSTON, PHILADELPHIA, AND PROVIDENCE, U.S.A.

IMPORTERS AND MANUFACTURERS OF

DYE STUFFS NATURAL ARTIFICIAL

Works: Long Island City, Port of New York Main Office: 178 Front Street, New York WE MANUFACTURE AND IMPORT

Every Modern Dye Stuff

Sole U.S. and Canada Agents for

Leopold Cassela & Co., Frankfort-on-the-Main. Germany.

W. C. Barnes & Co., London, England. Manufacture Lyonnaise de Matieres Colorantes, Lyons, France.

Albany Coal Tar Dye & Chemical Co., Albany, N.Y.

MINERALWOOL COVERNO

Steam Pipe and Boiler Coverings

ASBESTOS GOODS
OTTON WASTE

STEAM PACKINGS
GASKETS, Etc., litc.

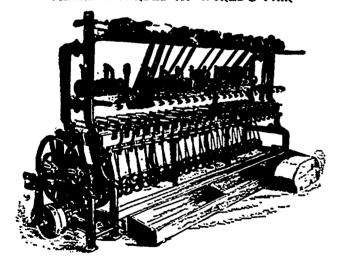
Largest and Best Assortment in Canada.

Canadian Mineral Wool Co., Ltd. =:= 122 Bay St., Toronto.

- 46.332 Water closet, Edward Hammon, Brooklyn, N.Y., June 19.
- 46,383 Transfer ticket, Andrew McFarland, Toronto, Ont., June 19.
- 46,384 Apparatus for drying clothes, Joseph Latonde, Winnipeg, Man., June 19.
- 45,385 Window sash slat fastener, Joseph W. Crevier and Edouard Leclerc, Montreal, Que., June 19.
- 46,386 Dredging machine, Cyrus H. Underwood, Chicago, Ill., June
- 46,387 Boiler, Hamline W. Reynolds, Geneva, N.Y., June 19.
- 46,388 Hay carrier, William Louden, Fairfield, Ia., June 19.
- 46,389 Microphone, Charles Clamond, Paris, France, June 15.
- 46,390 Trolley wheel, Frederick Lepper and William Wighton, Teronto, Ont., June 19.
- 46,391 Elevator, Alexander Shepherd and John M. Shepherd, Edinburgh, Scotland, June 19.
- 46,392 Salt, George Weddell, Newcastle-on-Tyne, England, June
- 46,393 Lime staking machine, John L. Bowles, Philadelphia, Pa., June 19.
- 46,394 Liniment, Joseph Livingston, Lobo, Ont., June 10.
- 46,3695 Electro mechanical movement, Elisha Gray, Highland Park Ill., June 19.
- 46,366 Clover seed attachment for mowers, The Massey-Harris Co., Toronto, Ont., June 20.
- 46,397 Machinery for winding thread upon star shaped disc holders, John Keats, Bagnall Hall, Stafford, England, June 20.
- 46,398 Process of plating metals with aluminum or its alloys, Edward C. Broadwell, Philadelphia, Pa., June 20.
- 46,390 Bicycle tire, Edward S. Beach, Boston, Mass., June 20.
- 46,400 Incandescent electric lamp and socket, Charles A. Hussey, New York, N.Y., June 21.
- 46,401 Galvanometer, The Whitney Electric Instrument Co., Saco, Me., June 21.
- 46,402 Bottle stopper, Charles A. Sullivan, et al, Windsor, Ont., June
- 46,403 Railway tie plate, The Q. and C. Company, Chicago, Ill., Tune 21
- 46,404 Shaft holder, William H. Davis, et al, Neepana, Man., June

- 46,405 Fabric, John F. Palmer, Riverside, Ill., June 21.
- 46,406 Galvanometer, The Whitney Electrical Instrument Co., Saco, Me., June 21.
- 46,407 Galvanometer, The Whitney Electrical Instrument Co., Saco, Me., June 21.
- 46,408 Electric measuring instrument, The Whitney Electrical Instrument Co., Saco, Me., June 21.
- 46,409 Automatic switch for electric motors, The Canadian General Electric Co., Toronto, Ont., June 21.
- 46,410 Machine for kneading dough, etc., George S. Baker, London, England, June 21.
- 46,411 Pneumatic tire, Hans J. Caufield, Toronto, Ont., June 21. 46,412 Repetition attachment for pianofortes, Walter Simpkins and Guiliano Ajelto, Camden, London, England, June
- 46,413 Kilns for drying kindling wood, Paul H. Knowlton and Thomas A. Knowlton, Boston, Mass., June 22.
- 46,414 Method of treating garbage, Hartio B. Arnold, Boston, Mass., lune 22.
- 46,415 Water alarm for steam boilers, etc., Peter A. Kérchner, Fort Wayne, Ind., June 22.
- 46,416 Thill coupler, John B. Pouk and James Brotherton, Spring Valley, Ill., June 22.
- 46,417 Barrel press, Thos. Craney, Bay City, Mich., June 22.
- 46,418 Curling Iron, Charles F. Stout, and Howard B. Stout, Chicago, III., June 22.
- 46,419 Telephone Circuit, The Bell Telephone Company of Canada, Montreal, Que., June 22.
- 45,420 Telephone transmitter circuit and apparatus, The Bell Telephone Company of Canada, Montreal, Que., June
- 46,421 Telephone circuit, The Bell Telephone Company of Canada, Montreal, Que., June 22.
- 46,422 Apparatus for suppressing telephone disturbing currents, The Bell Telephone Company of Canada, Montreal, Que., June 22.
- 45,423 Locomotive fire kindling apparatus, John S. Leslie, Paterson, N.J., June 22.
- 46,424 Steam generating grate, Charles W. Hicks and Carlos W. Evans, Ashburn, Ga., June 22.

MEDAL AWARDED AT WORLD'S FAIR



Patent Bobbin Winding Machine, for Worsted or Cotton Yarns Pat. Nov. 22nd, 1887, with variable motion Pat. Aug. 5th, 1881.

The Only Successful Skein Winder Variable Motion, patented Aug. 18th, 1891, a.:d Sept. 5th, 1883.

W. W. ALTEMUS & SON

... Textile Machinery ...

2816 North 4th Street : : Philadelphia, Pa.

....Builders of Cop and Bobbin Winders

Chenille Cutters

Spoolers, Warp Mills

Beaming, Carpot Rolling Machines, Reels, Etc.

ESTABLISHED 20 YEARS

122 PEARL ST., NEW YORK

Anilines, Dyestuffs . . . and Chemicals

of every variety, of the best quality and at the lowest prices. Delivery made at New York, Montreal or Hamilton.

WRIGHT AGENTS

DALLYN පීට

HAMILTON, ONT.

NEW YORK AND DYEWOOD COMPANY

.....MANUPACTURERS OF.....

Dvewood

.Solling Agents for the United States and Canada for the.

ACTIEN-GESELLSCHAFT FUR ANILIN-FABRIKATION Berlin, Germany.

C. 55 Beekman St. BOSTON, 106 and 108 Milk St. PHILADELPHIA, 122 and 124 Arch St. NEW YORK.

A. W. LEITCH, 16 Hughson St. South, HAMILTON, ONT

- 46,425 Appliance for disinfecting waterclosets, George T. Orton, Winnipeg, Man., June 22.
- 46,426 Device for liberating horses from vehicles while in motion, Isaac Briggs, Middleboro' Mass.. June 22.
- 46,427 Air filtering stopper for bottles, etc., Johannise, J. Van Hest, Amsterdam, Holland, June 23.
- 46,428 Horse detacher, William W. Dickinson, et al, Dundonald, Ont., June 23.
- 46,429 Grate, Andrew Scharg and Duncan Dempster, Brantford, Ont., June 23.
- 46,430 Fluid discharging apparatus, William T. Messinger, Boston, Mass., June 23.
- 46,431 Wire stretcher, John L. Crain and Elbert E. Waller, City of Ava, Ill., June 23.
 46,432 Cloth painting machine, Eugene H. Schofield and Oren Dunlam, Ludington, Mich., June 23.
 46,433 Apparatus for reeling fabrics, Eugene H. Schofield and Oren Dunham, Ludington, Mich., June 23.
 46,434 Cloth drying, tentering and trimming machines, Eugene H. Schofield and Oren Dunham, Ludington, Mich., June 23.

FOR SALE

TO CLOSE CONSIGNMENT.

Address, JAS. W. PYKE & CO.,

35 St. Francois Xavier Street,

MONTREAL.

46,435 Prison cell, safe and other repositories, Paul E. Glafeke, Chevenne, Wyoming, June 23.

46,436 Internal stay for trunks, etc., John T. Dwyer, Montreal, Que. June 25.

- 46,437 Tension rods for fire proof floors, roofs, etc., Thomas A. Lee, New York, June 25.
- 46,438 Motor for operating pumps, Louis H. Lloyd, Lincoln, Ill., June
- 46,439 Wind mill, John Boisclair, Montreal, Que., June 25.
- 46,440 Dental furnace, James H. Downie, Detroit, Mich., June 25.
- 46,441 Device for separating the turnings from the finished screwsin screw making machines, Jason A. Bidwell, Cleveland,
- Ohio, June 25. 46,442 Decorticating, preparing, twisting and winding peat, etc., Gustave A. Cannot, London, England, June 25.
- 46,443 Pneumatic tire repairer, Charles E. Buckbee, et al, I histing! Mich., June 25.

. . . ESTABLISHED 1842. . . .

${ t ADAM\ LOMAS\ \&\ SON}$ SHERRROOKE, QUE.

Flannels, Dress Goods, and Tweeds.

Selling Agents, JAS. A. CANTLIE & CO.,

MONTREAL & TORONTO,

SOLICITOR OF PATENTS

J. A. CRENIER, C.E., - - Imperial Building, Room 83, MONTREAL

Patents, Trado Marks, Industrial Designs, Cavents, etc., for Canota, United States, and all Foreign Countries. Hydraulic Engineering a Specially, 22° Send for Book of Instructions to Inventors, 'ex

FETHERSTONHAUGH &

Patent Barristers and Solicitors

Electrical and Mechanical Experts and Draughtsmen

Cable Address "Invention, Toronto."

Telephone 2549

Procured in Canada and all Foreign Countries

Head Office: Canadian Bank of Commerce Bidg., TORONTO

PATENIS

Caveats, Trade Marks, Designs, Etc.

We passess unsurpassed facilities for procuring natents in Canada, United States and all foreign countries. Moderate terms, Report as to patentability of invention FREE of charge.

Be ore applying for pa ent write us for circular. All information and advice free. Rejected applications a specialty.

GLASCOCK & CO., 605 F St. N. W., Washington, D.C.

Established 1881 with Twenty Years' Professional Experience in Canada, England and Germany.

HARVEY, C.E.

ATTORNEY

Ottawa, Canada

Offices: Rooms 33 and 34 Central Chambers

Address: Postal Box 1071

TELEPHONE

-MONTREAL

Send for Circular 48a "How to Obtain a Patent,"

Asbestos **Board and Friction Pulley Board** Mill

ROOFING, SHEATHING, AND FLOORING FELTS

The Dominion Leather Board Company

Proprietors of Sault au Recollet Paper Illis

ECO MAGNETO

Watchman's Electric Clock

... WITHOUT BATTERIES ...

Write for Descriptive Circular to

... Eco Magneto Clock Co...

ROOM 71 : : 620 ATLANTIC AVE. BOSTON, MASS.

MONTREAL ELECTRIC CO., Agents for Province of Quebec 302 ST. JAMES STREET

John Starr, Son & Co., Ltd. — Agents for the Martime Previnces. Halifax, N.S. WE MANUFACTURE

THE MOST PERFECT

IN THE MARKET.

Send for full information and prices to

The E. Howard Watch and Clock Co.,

FINE WATCHES & CLOCKS :

3.3 Washington St., Ecston, Mass. 41 Malden Lane, New York, N.Y. 34 Washington St., Chicago, Ill.

Samuel Little, Pros. Rufus R. Carr, Gen. Mgr. Arthur M. Little, Tress.

UNITED STATES PATENTS.

GRANTED TO CANADIAN INVENTORS.

The following patents were issued from the United States Patent Office, from Aug. 14 to Sept. 11, 1894, and reported especially for the CANADIAN MANUFACTURER by Glascock & Co., patent attorneys, Washington, D. C. Printed copies of these patents can be obtained from them for 25 cents each.

George M. Aylsworth, Collingwood, Ont., buckle.

Israel S. Carr, Toronto, Ont., portable chemical fire extinguisher.

Duncan MacPherson, Montreal, Que., railway switch.

Thomas Robertson, Toronto, Ont., confectionery machine.

Walter Rolands, Montreal, Que., railway frog.

Charles F. Burtis, Toronto, Ont., game apparatus.

Benjamin T. Lawton, London, Ont., combined sofa and bed.

Bernard McHugh, Ottawa, Ont., device for cutting cards with beveled edges for photograph mounts.

George Russell, Hamilton, Ont., farm fence.

Caleb Swayze, Toronto, Ont., antispattering guard.

Alfred Burkholder, Toronto, Ont., chair.

William R. Cartledge, Guelph, Ont., knit fabric and method and apparatusfor producing same.

William C. Donaldson, Windsor, Ont., target trap.

William H. Emerson, Chatham, Ont., lumber register.

Moore Letson, and F. Burpee, New Westminster, B.C., can washer. Alexander McKerlie, Hamilton, Ont., device for preventing accidents on street cars.

Hervey Tallman, Beamsville, Ont., double disk harrow.

Alfred E. Trevithick, St. Henri, Que., street clearing apparatus.

Henry Whiteside, Sussex, N.B., sofa bed.

James Woods, Newton Brook, Ont., farm gate.

Frederick H. Kinder, Stratroy, Ont., self-supporting attachment for bicycles.

Benjamin C. Pettingill, Victoria, B.C., explosive compound.

The BROWN BROS., Ltd

MANUFACTURING STATIONERS

OUR SPECIALTIES ARE

ACCOUNT BOOKS,

Full Stock always on hand or special patterns made to order. STATIONERY AND OFFICE SUPPLIES.

Paper, Envelopes, Office Sundries, Complete Stock of every Requisite.

BOOK-BINDING, every kind. LEATHER GOUDS, Bill Cases, &c.

DIARIES, Office and Pocket,

-CANADIAN AGENTS FOR-

CALIGRAPH TYPEWRITER, EDISON MIMEOGRAPH, WIRT FOUNTAIN PENS.

64-68 King Street East, TORONTO.

RECISTERED

BRAND

. Sampson.

Portland

Equal to the Best English and German BrandsMANUFACTURED BY.....

THE OWEN SOUND PORTLAND CEMENT CO., LTD OWEN SOUND, ONTARIO

its use is authorized by the Toronto City Engineer and Engineers of other Public Works.

QUALITY GUARANTEED
.....Write for Prices, Tests and Samples.

JOHN LUCAS, 377 Spadina Ave. Representative for Toronto.

INSTRUCT YOUR PRINTERS TO

IN YOUR CATALOGUES. -

It is the only Paper that will give the full effect to Half-Tones or Electro-Histes of Muchluery, &c.

FOR SALE BY THE WHOLESALE PAPER HOUSES.

- Manufactured by -

RITCHIE & RAMSAY, TÚRONTO.

Fire Bricks Cement Drainpipes

AT LOWEST PRICES

F. Hyde & Co., 31 Wellington St.MONTREAL.....

SMITH & CO.

TURONTO

Manufacturers and Dealers in Wool Stock, Shoddies, Etc.

Wool Pickings, Woollen and Cotton Rags, etc., lought, or worked up and returned. Carbonizing and Neutralizing a specialty

C. G. ELRICK & CO.

Factory: Sheppard Street, Teronto Montreal Office: Fraser Building

MANUFACTURERS OF HORN AND RUBBER COMBS. ETC.

The Toronto Paper Mfg. Co.

ENGINE SIZED SUPERFINE PAPERS WHITE AND TRITED BOOK PAPERS
Rice and Cream Laid and Wore Foolscape, Account
Book, Envelope and Lithographic Papers, etc.

METALLIC ROOFING CO TORONTO MANUFACTURERS

F. W. HORE'S SONS

Hamilton - - Ont.

Manufacturers of

Wheels. Wheel Materials, Shafts, &c

BROWN



GO. &z

MANUFACTURERS OF

Square and Hexagon HOTPRESSEDNUTS

Paris, Ont.

WELLAND VALE MANUFACTURING CO

LOCK No. 2, ST. CATHARINES, Ont.

Axes, Scythes, Forks, Hoes, Rakes and Edge Tools.

The Paris Electro Plating Co. Manufacturers of

TOVE TRIMMINGS

and Novelties, PARIS STATION Orders Solicited. ONT.

THE PAUL FRIND Woolen Machinery Company, Ltd.TORONTO....

Dealers in and Manufacturers of WOOLEN MACHINERY. MILL SUPPLIES.

Specialties: English H&T Steel Card Clothing.

Williams' Heddles, Shuttles, Reeds, Heddle-frames, Loom Repairs.

DODGE WOOD SPLIT PULLEYS Best Oak Tanned Belting and Lace Leather.

Jas. A. Cantlie &

CENERAL MERCHANTS AND MANUFACTURERS' ACENTS

ESTABLISHED 22 YEARS

COTTONS—Groy Sheetings, Checked Shirtings, Denhams, Cottonades, Tickings, Bags, Yarn, Twine, etc.

TWEEDS—Fine, Medium and Low Priced Tweeds, Serges, Cassimeres, Docskins, Etoffes, Korseys, etc.

FLANNELS-Plain and Fancy Plannels, Overcoat Linings, Plain and Fancy Dress Goods, etc.

KNITTED GOODS-Shirts, Drawers, Hosiery, etc.

BLANKETS-White, Grey and Colored Blankots.

WHOLESALE TRADE ONLY SUPPLIED

ALBERT BUILDING, 290 ST. JAMES STREET, MONTREAL TORONTO 20 WELLINGTON STREET WEST,

Advances made on Consignments. Correspondence Solicited.

BRUNNER, MOND & CO., LTD., NORTHWICH, ENG.

Manufacturers of PURE ALKALI Guaranteed 58 Degrees.

The Strongest and Purest Form of SODA ASH in the Market, and the Most Economical Form of SODA for the Manufacture of

.ND, Montreal

Standard Goods are the best to Handle'



COIGNET'S

FRENCH MEDAL GLUES.



STANDARDS OF STRENGTH.

WRITE US FOR QUOTATIONS.



ARTHUR P. TIPPET & Co., Sole Agents, Montreal.

"The Reeves"

PAT. WOOD SPLIT PULLEY

Lightest and Strongest

Latest and Best . . .

Fully Guaranteed . .

Extra Large Pulleys a Specialty

....Solo Manufacturers....

Reeves Pulley Co. TORONTO, ONT., columbus, IND



THE PULSOMETER

STEAM PUMP

Often Imitated, but Never Equalled

The handiest, simplest, and most efficient steam pump for general Mining, Quarrying, and Contractors' purposes.

MUDDY OR GRATY LIQUIDS

HANDLED WITHOUT WEAR

Descriptive Catalogue, with Prices, Furnished on Application

Pulsometer Steam Pump Co.

NEW YORK, U.S.A.

A. R. WILLIAMS Toronto and Montreal, Selling Agent for Canada

CANADA CHEMICAL MANUFACTURING CO.

MANUFACTURERS OF

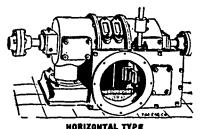
Sulphuric, Nitric and Muriatic Acids, Commercial and 1 Chemically Pure. Mixed Acids for Explosives, Liquid Ammonia, Glauber Salts.

LONDON.

Copperas, Muriate Tin, Tin Crystals, Acetic Acid, Nitrate Iron, Bisulphite Soda, Acid Phosphate for Baking Powders and General Chemicals. Fertilizers, Etc.

ONTARIO.

"Little Giant" Turbine Water Wheels



For All Purposes, HORIZONTAL and VERTICAL.

.....Makers of.....

The Improved Walsh Double Acting Water Wheel Governor Machine Dressed Gearing, Pulleys, Shafting, Bearings, Etc. Write for Catalogue and Gear List.

J. C. WILSON & CO.,

Glenora, Ont.



Sole Proprietors and Manufacturers of Crosby Pop Safety Valves, for all kinds of boilers Water Relief Valves, including the Underwriter, which is fully approved by the Associated Factory flutual Ins. Cos.; Crosby Steam Engine Indicators, with Surgent's Electrical Attachment; Crosby Improved Steam Gages and Patent Gage Testers; The Original Single Bell Chime Whistles.

BRANDEN PATENT PUMP VALVES All kinds of Pressure and Vacuum Cages used in the various arts.

UNDERWRITER
Sole Agents for
Clark's Lines. Fire Hose and Adjustable Couplings.
Gold Medal, Paris Exposition, 1889. Ten Highest awards, Columbian Expos., 1893.
Branch Offices at New York, Chicago and London, Eng. Main Office and Works, BOSTON, MASS., U.S.

DOMINION SUSPENDER CO.

Canada NIACARA FALLS United States

Trade D Mark

The largest, oldest and most progressive Manufacturers of Suspenders and all kinds of Elastic Goods.

Totale Office:

E. Stovel, 45 Canada Life Bid'g | Montreal Office:
Phillip Re Pruchy, 162 St. James Street.

WRITE TO THE

Paton Manufacturing Co'y

of SHERBROOKE, OUE., for

WORSTED · KNITTING AND FINGERING YARM

Montreal Office 409 Board of Trade Building.

Toronto Office, 33 Melinda Street

W. H. STOREY & SON

Manufacturers of Fine Gloves and Mitts

In every variety and style.

Moccasins



For Iron Fencing, Bank and Office Railings and all kind of Ironwork, address Toro, to Fence and Ornumental Works, 73 Adelaide St. W. 5st., Toronto.

The Bell Telephone Company Canada

MANUFACTURERS AND DEALERS IN

Telegraph and Electrical Instruments

Electro-Medical Apparatus, Fire Alarm Apparatus, Electrical Cas-Lighting Apparatus, Magnets for Mills, Burgiar Alarms, Hotel and House Annunciators, Electric Call Bells, etc.

FOR FURTHER PARTICULARS APPLY TO

NO. 12 HOSPITAL STREET, MONTREAL.

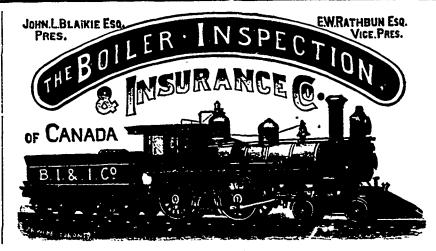
WHEN WERE

YOUR

LAST

INSPECTED

Chief Engineer Secretary-Treasurer C. ROBB, FRASER,



Office: TORONTO

THEY ARE

ARE YOU

SURE

AND

IN GOOD **CONDITION?**

TORONTO CARPET MNFG. CO., Ltd.

Were awarded Gold Medals at the World's Columbian Exhibition, Chicago, for their

INGRAIN

and - -

"Imperatrix" Axminster

SEVEN QUALITIES OF INGRAINS

Axminster Mats, Kensington Art Squares, Rugs. Body Border and Stairs. Squares,

Esplanade and Jarvis Sts.. Toronto

The Dominion Cotton Mills Co..

MAGOG PRINTS

A Full.. Pure Indigo Prints

Is now being shown to the trade. Ask Wholesale Houses for Samples.

All Goods Guaranteed, and Stamped "Warranted Pure Indigo"

D. Morrice, Sons & Co. selling Agts. Montreal and Toronto

HAMILTON COTTON CO

Hamilton, Ontario

DYERS, BLEACHERS

AND MANUFACTURERS OF

Warp Yarn, in Beam, Chain or Skein, White or Colored. Single and Double Yarns, Cop Yarn, Single and Double Hosiery Yarn in all Colors, including genuine "Fast Black."

PAUL FRIND & CO., - TORONTO

Selling Agents for Beam Warps

S. LENNARD & SONS

DUNDAS, ONTARIO

Patentee of "ELYSIAN" SEAMLESS HOSIERY and LADIES' **NURSING VESTS**

MANUFACTURERS OF

Plain and Fancy Hosiery

Caps, Toques, Sashes

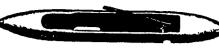
AND LADIES' NATURAL WOOL AND SUMMER UNDERWEAR

Represented in Exetern Ontario, Quebec, Nova Scotia, and New Brunswick by ANDREW BELL, Montreal

WOONSOCKET SHUTTLE CO., 157 Morth Main St. WOONSOCKET &

Manufacturers of

Power and Hand Loom .. < SHUTTLES



Of Every Description.

Write us.

One Dip Black for Wool One Dip Black for Cotton

SUITABLE FOR RAW STOCK, YARN AND PIECE GOODS

These Blacks deepen in the atmosphere and in fulling, and dye very economically. Mana facturers and Dyers will do well to send for a sample bbl. of each ALEX. P. MENDE, 14 Water Street, NEW YORK

GEO. D. ROSS & CO. Woolen Commission Merchants

MONTREAL and TORONTO

Advances Made on Consignments.

Correspondence Solicited

FERGUSON & PATTINSON

PRESTON : : : ONT.

Manufacturers of

Fine and Medium TWEEDS.

BRODIE & CO. :

Hespeler

Ont.

finite of FLANNELS, TWEEDS and SERGES

Selling Agents, Millichamp, Coyle & Co., Montreal and Toronto.

Penman Manufacturing Co., Ltd.PAKIS, ONT....

Hosiery, Shirts, Drawers Glove Linings and Yarns

Solling Agents: D. MORRICE, SONS & CO., Montreal and Toronto.

POSAMOND WOOLEN CO.

... ALMONTE, ONT...

Fine Tweeds. Cassimeres and Fancy Worsted Suitings and Trouserings.

Guelph Woolen Mill Co., Ltd.

GUELPH - - - ONTARIO

Manufacturers of

UNDERWEAR, HOSIERY, WHEELING, FINGERING OND WORSTED YARKS

Sciling Agents: DONALD FRASER, MONTREAL: E. H. WALSH & Co., TORONTO

T. A. MORRISON & CO. 118 St. Peter Street.

Building Materials!

Red and Buff Pressed Bricks, and Grnamet-tal Terra Cotta.—Building and Sewer Bricks— Portus Terra Co ta Fireproofing, Building Sones, Metal Lath, Etc.

AUBURN WOOLEN CO.....

_PETERBOROUGH, ONT.

MANUFACTURERS OF

TWEEDS.

Seiling Agents, D. MORRICE, SONS & CO., Montreal and Toronic.

....THE....

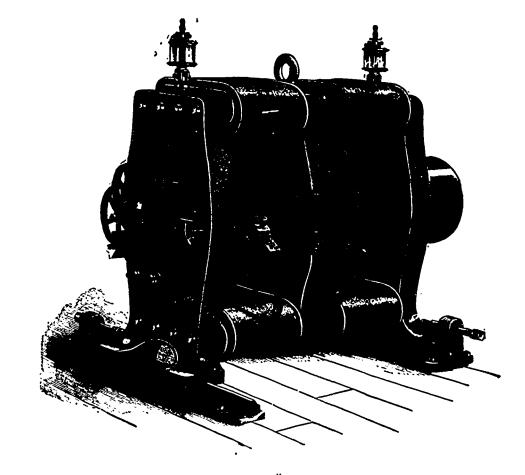
CANADIAN GENERAL ELECTRIC COMPANY

LIMITED.

Head Office: 65 to 71 FRONT ST. WEST, TORONTO, ONT.

\$1,500,000.

APITAL,



Factories: PETERBOROUGH, ONT

Branch Offices and Warerooms:

138 Hollis Street, -1802 Notre Dame Street, 350 Main Street, -Granville Street, - HALIFAX, N. S. MONTREAL. QUE. WINNIPEG, MAN. VANCOUVER, B.C.

ELECTRIC LIGHT FOR MILLS AND FACTORIES!

Manufacturers can Save Money by installing their own Electric Lighting Apparatus.

We manufacture the Most Modern and Perfect Machinery for this Purpose, and our Standard of Workmanship is of the Highest

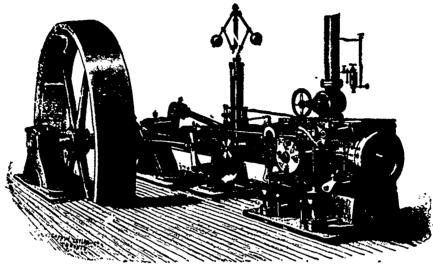
We Will be glad to Furnish Estimates of Cost upon Application.

John Inglis & Sons

TORONTO.

ONTARIO

Corliss Engines Marine Engines High Speed Engines Flour Mill Machinery



Stationary Boilers Marine Boilers Water Tube Roilers Shafting Pulleys, etc.

ENGINEERS, BOILER MAKERS and MILL BUILDERS

FOR SALE.

One 60 h.p. Steam Engine and Boiler. 6 Flue Boilers, 4 ft. 6 in, x 26 ft, with two 18 in. flues.

2 Horizontal Steam Pumps.

1 Large Silsby Steam Pump.

1 Upright Boiler 6 ft. x 11 ft, 250 drop tubes.

The above are all in good working order and will be sold reasonably.

Address LAW BROS. & CO.,

Founders and Machinists.

OTTAWA, ONT.

R. C. Jamiesor

A. T. Higginson

R. C. JAMIESON & CO. MANUFACTURERS OF

Importers of Oils, Paints, Colors, "urpentine, Shellacs, Methylated Spirits, Rosins, Glues, Gold Leaf, Bronze, Etc., Etc. Office, 13 St. John Street, Factory and Warehouse, 23 to 29 St. Thomas St. MONTREAL

WM. BARBER & BROS.

GEORGETOWN

Manufacturers of Book and Fine Papers

TINCLEY & STEWART MFG CO. SEALS. RUBBER STAMPS. Steel Stamps, Stencils, Brands, Erc.

10 KING STREET WEST, Up-Stairs, TORONTO.

St. Charles & Pringle

BELLEVILLE, ONT.



Manufacturers of Electric.. Cable ... and Horse **STREET GARS**

Omnibuses, Hose Wagons and Vehicles of All Description.

. . . FOR . . .

Factory Telephones and Watchman's Clocks.

write.....LOWE & FARRELL,

38 James Street South, Hamilton, Ont.

FIRSTBROOK BROS. Mnfrs of Dovetail and Packing Boxes

Top-Pins, Side Blocks and Cross Arms. Wood Printers, lite. CIGAR BOXES, SHIPPING CASES.

ONT.

R, SPENCE & CO.

Ont.

Manufacturers of ES and Recutting in all Branches ···THE

Dodge Pat. Wood Split Pulley

WITH INTERCHANGEABLE BUSHING.... Only Perfect The Wood Split Pulley.

.. QUARANTEED.. FOR HEAVIEST MILL WORK. All sizes in stock.



In use in all the Leading Mills.

Beware of Imitators.

.. We have the Most Extensive Pulley Works in Canada... SEND FOR NEW PRICE-LIST

Dodge Patent Wood Split Pulley Co.

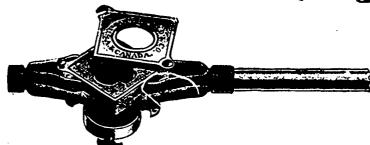
68 KING ST. WEST TORONTO.

TORONTO JUNCTION

Butterfield & Co.

ROCK ISLAND

QUE





MANUFACTURERS OF...

Stocks and Dies. Solid Die Plates. Reece's New Screw Plates.

Taps and Dies for all uses Young Axle Cutter and Tools for Engineers and Steam Fitter's use. - - -

The CANADIAN MANUFACTURERS' ASSOCIATION



J. J. CASSIDEY, Secretary. GEORGE SOOTH, Treasurer.

Office, Room 66 Canada Life Building

KING STREET WEST, TORONTO THE OBJECTS OF THIS ASSOCIATION ARE

THE OBJECTS OF THIS ASSOCIATION ARE

To secure by all legitimate means the aid of both Public Opinion and Governmental Policy in favor of the development of home industry and the promotion of Canadian manufacturing enterprises.

To enable those in all branches of manufacturing enterprises to act in concert as a united body whenever action in behalf of any particular industry, or of the whole body, is necessary.

To maintain Canada for Canadians.

Any person directly interested in any Canadian manufacturing industry is eligible for membership.

Manufacturers desiring to hold meetings for the promotion of their business, are invited to avail themselves of the Board Room-of the Association for the purpose, which is offered to them free of charge.

J. J. CASSIDEY. Secretary.

J. J. CASSIDEY, Secretary.



Septen

Lathes.

THE LONDONDERRY IRON CO., Ltd.

A. T. PATERSON,

President and Man. Dir.

JAS. PHYMISTER,

Secretary.

MANUFACTURERS OF

PIC IRON, BAR IRON. PUDDLED BARS

NAIL PLATES,

WATER PIPES, ETC.

OFFICE ONTOFAL LONDONDERRY, NOVA SCOTIA

Canada Iron Furnace Co., Ltd. MONTREAL, RADNCR and THREE RIVERS

Manufacturers of the well-know

"C.I.F." Three Rivers Charcoal Pig Iron

Suitable for Car Whee's, Cylinders and Fine Castings where the utmost strength is required.

Unsurpassed in Strength by Swedish, Russian, or American Charcoal Iron

Offices: New York Life Insurance Building, Montreal

Nova Scotia Steel & Forge Co. Offer Bright Compressed Steel Shafting as per Following Lin

PRICE LIST.

BRIGHT COMPRESSED STEEL SHAFTING. Every Bar Guaranteed Straight and In

to Size within 1800 of an inch.



Nominal Size of Shaft	Actual Size of Shaft	Weight per ft.	Price per lb.	Nominal Size of Shaft	Actual Size of Shaft	Weight per ft.	Price per lb.
134	1,5	4.13	415 cts.	21,	5}7	18.91	4 cts.
138	128	3.01	44	. 3	213	22.59	"
1,15	1.15	5.94	••	3%	312	26.60	•
134	1]]	7.56	••	3,14	314	30.94	44
2	148	9.83	4 cts.	. 4	4	42.33	5 cts.
21/4	213	12.53	• • •	434	4.14	53.57	• •
23/2	212	15.55	44	5	5	66.13	- "



NOTE--Shafting as per Actual Size Column, up to 3 in. dia., always kept in stock.

BOXING EXTRA AT COST.

Stock Lengths 12, 14, 16 and 18 feet.

On orders from stock cet to other lengths, we charge for length from which we cut.

Prices for Special Sizes, varying from list of actual sizes given above, will be furnished upon application.

All orders filled as per Actual Size column unless otherwise specified.

Prices Subject to Change Without Notice.

Tais is not Hot Polished or Cold Rolled Steel, and will not spring when keyscated. If your Wholesale Hardware Firm cannot supply at write direct to the Works, New Clasgow, Nova Sootia.

PICTOU CHARCOAL IRON CO. Ltd.

BRIDGEVILLE, NOVA SCOTIA

WORKS:

HEAD OFFICE:

Bridgeville, N. S.

New Clasgow, N. S.

Manufacturers of all grades of

Charcoal Pig Iron

SUITABLE FOR

CAR WHEELS, CYLINDERS, Etc.

The New Glasgow Iron,
Coal and Railway Company, Ltd.
FERRONA, PICTOU CO., N.S.

Producers Foundry and Hematite MG IRON

Brand "FERRONA"

Specially Suitable for the best class of Machinery Work.

Sales Agents for the Provinces Drummond, McCall & Co., Montal of Ontario and Quebec...

Ma

Thi varied for a la permits a inside has ! It is positive half a door and cheap.

The Si

Planii Mach Knive



Send for

189<u>1</u>.

Ltd

RS

Iron

. Or

itreal

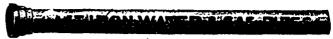
ing lid

nd Im

bji us

Tel

Drummond-McCall Pipe Foundry Co. Limited



"SPECIALS," HYDRANTS, VALVES, ETC. Offices. - NEW YORK LIFE BUILDING, MONTREAL Works, Lachine, Quebec.

The LONDON MACHINE TOOL CO.

..LONDON, ONT., CANADA..

MANUFACTURERS OF

MACHINE-SHOP EQUIPMENTS

Lathes, Planers, Drills, Column, Radial and Suspension Shapers, Slotters, Bolt Cutters, Mil'ing Machines, Turret Lathes, Automatic Gear Cutters and Cutting-off Machines, Boring and Turning Mills (up to 20 feet swing), Driving-wheel Lathes, Tire-boring and Turning Mills, Cylinder Boring Machines, Frame Slotters, S'ab Millers,

.BOILER EQUIPMENTS.. Punches and Shears, Binding Rolls, Straightening Rolls, Late Planers, Multiple Drills, BRASS FINISHERS' EQUIPMENTS, Fox Monitor Lathes, Plain Turret Lathes, Valve Millers, Vertical Milling Machines, Valve Chuck, Box Chucks, etc., for cutting and stamping and drawing tin and metal tools up to the heaviest work required.
... GENERAL AGENT FOR THE DOMINION...

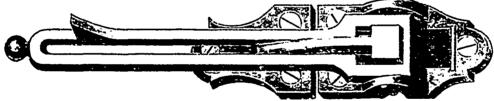
A. R. WILLIAMS. Toronto, Unt.

THE CANADA PIPE & FOUNDR

MONTREAL

Manufacturers CAST IRON WATER and GAS PIPES

The "Safety" Door and Transom Lock and Ventilator Combined



This is an invention that takes the place of the Bolt and Chain for Doors, and supersedes and is safer than any device ever instant for a Transom Lift, as it is impossible for anyone to effect an entrance from the outside in the case of either door or transom, interesting door to be opened a few inches, thus enabling the person inside to see who is outside before admitting them. The person inside has full control of the door, either to open or lock it, as they may see fit.

There is no swinging chain to deface the door or jam. It is that only fastener ever invented that will had door both open and shut. It must be seen to be appreciated. It is made of the best malleable iron, and is strong, durable, reliable and cheap. It is finished both in Japan and Nickel.

Retail Price of Japanned, 30c.

Retail Price of Nickeled, 50c.

Retail Price of Discounts to the trade.

Handsome Discounts to the trade. The St. Lawrence Steel and Wire Co..

Retail Price of Nickeled, 50c. For sale at all Hardware and House Furnishing Stores.

Gananoque, Ont. Solo Manfacturers for Canada.

Planing.. Machine. Knives...

Stave Cutter Knives



Moulding, Tenoning. Mitreing

Shingle Jointer

AND OTHER IRREQULAR SHAPES

Paper Cutting, Leather Splitting, and any specia Knife made to order.

Stave Jointer Knives Send for Price List **All Work Warranted**

PETER HAY,

GALT, ONT.

Established 1848

SINGER, NIMICK PITTSBURGH, Pa., U.S.A.

MANUFACTURERS OF

BEST CRUC. CAST STEEL, for Turning Tools, Taps, Dies, Brills, Punches, Shear Knives, &c., &c.

HIGH GRADE SPECIAL CRUC. TOOL CAST STEEL, for all purposes, requiring finest quality.

ANNEALED EXTRA CRUC. CAST STEEL, for Dies, Cutters, Surgical Instruments, &c., &c.

HOT ROLLED SHEET STEEL, for Springs, Knives, &c., for Drawing and Stamping Cold.

BRIGHT COLD ROLLED SHEET and STRIP STEEL, for Cold Drawing, Stamping, Bending, &c., &c.

SOFT CENTRE CRUCIBLE OPEN HEARTH PLOW STEELS **ROLLING COLTERS**

MR. HUCH RUSSEL

Tomple Suilding

185 St. James Street

MONTREAL

STEEL

STEEL

LaBelle Steel Co. PITTSBURCH, Pa.

Manufacturers of .

CRUCIBLE, SOFT CENTRE and SOLID

For Plows and Agricultural Implements of all kinds

Harrow Diecs (plain and finished), Machin-ery Steel, Tool Steel, Axe Steel, Rake Teeth, and Miscellaneous Steel of all de-scriptions. For prices write to

W. G. BLYTH

CANADIAN ACENT

34 YONGE STREET

TORONTO

Thompson & SHERBROOKE, QUE.

-Manufacturers of-

BOBBINS & SPOOLS

Of every description for

Woolen, Cotton & **Rope Mills**

Extra Facilities for supplying New MHIs and filling large orders.

WRITE US.

GUATIER STEEL DEPARTMENT OF CAMBRIA JOHNSTOWN, PA.

Manufacturers of

MERCHANT BAR STEEL.

Including Tire, Toe Calk, Machinery, Carriage Spring, Railrost Spring, Hoe, Rake, Fork, Etc.

AGRICULTURAL STEEL AND SHAPES....
Finger Bars, Knife Backs, Rake Teeth, Bundle Carrier Teeth, Tedder Forks and Springs, Spring Harrow Teeth, Harrow (Drag) Teeth, Seat Springs, Etc.

Flat and Finished Plow Shapes, Digger Blades, Slabs, (Penn and Pernot), Hanamed Lay, Rolled Lay, Etc.

COLD ROLLED STEEL SHAFTING.

STEEL HARROW DISCS.

: : Cambria Link Barb Wire. : :

New York Office, 92 Chambers St.

Philadelphia Office, S. W. Cor. 5th and Commerce Sts.

Southern Office Chattanooga, Ten.

From 1 to 40,000 pounds weight, of Open Hearth, Chair or Bessemer Steel.

TRUE TO PATTERN. SOUND.

Gearings of all kinds, Crank Shafts, Knuckles for Cu-Couplers. Crass-Heads, Rockers, Piston Heads, etc., in Locomotives. Steel Castings of every description.

CHESTER STEEL CASTINGS CO.

Works: Chester, Pa. Office: 487 Library St., PHILADELPHIA h

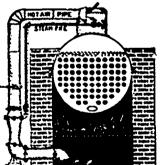
Wrought Iron, Seam and Cotton Waste...

Jas. W. Pyke

35 St. Francois Navier St., MONTREAL.

MERCHANT IN IRON and STEEL





Steam and Air Injectors, Exhausters, etc.

For burning hard and soft coal screening, run mine and lump coal under steam boilers, exhausting air, and vapors from buildings, ventilating ships, mines, etc.

Highest Medal and Diplomas given at the World's Columbian lix-position, Chicago, 1893.

The Best Blower in 'to market for steam Billers,

Send for Illustrated Catalogue to

S. R. EARLE - -Belleville, Ont.



Recommended by 75,000 Engineers

WHO KNOW WHEREOF THEY SPUE

Send for Circular and Price List.

PENBERTHY INJECTOR CO. Detroit, Mich.

BRANCH FACTORY AT WINDSOR, OHT.

ROLPH, SMITH & CO.

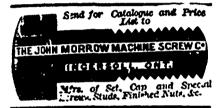
Engravers, Lithographers, Stationers, Die-Sinkers & Embossers

Bill Heads, Envelopes, Note Paper, Show Cards, Calendars, Business Cards, Cheques, Stock Certificates, Seals, Pamphlets, Circulars, Notes, Drafts, Maps, Plans, Medal Dies, Book Plates, Folders, Hangers, Lette Heads, Debentures,

OFFICE SUPPLIES.
MONUMENTAL BRASS PLATES.

Bonds, Invitation Cards, Visiting Cards, - Labels, - Posters.

49 Wellington St. West,



HACKNEY POWER HAMMERS

Are superior in many respects to most in the market. Made by

STEVENS, HAMILTON & CO.
GALT : : ONT.

Leitch & Turnbull,

CANADA KLEVATOR WORKS, QUEEN AND PETER STS. HAMILTON ONT.

Patent Safety Hydraulic Hand and POWER ELEVATORS.

Telephone connection.

..A. LEOFRED.,

Graduate of Laval and McGill

Mining Engineer

MAIN OFFICE, - CITY OF QUEBEC.

BHANCH Sherbrooke, OFFICES Montreal, 17 Place d'Arms Hill

MINES, MINERAL PRODUCTS.

Calcined



Plaster

MANUFACTURED BY

MANUFACIURED BY

ALBERT MANUFACTURING CO.
HILLSBOROUGH, N.B.

PATTERSON & CORBIN

FINE

ELECTRIC CARS



OUR SPECIALTY

St. Catharines, Ont.

MANUFACTURERS OF

Horse and Trail Cars

--OF--

Every Description





ELEVATORS

FENSOM ELEVATOR
· WORKS ·
52-54-56 DUKE ST

(LECTRIC HYDRAULIC STEAM & HAND-POWER (ASSENGER & GOODS (LEVATORS, DUMB WA!TERS Wm. Hendrie, President

Hamilton Bridge Company And

John S. Hendrie, Vice-President,

(LIMITED.)

Cable Address: "HENDRIE"

C. Telper, Consulting Engineer.

Thomas Meston Sec'y-Treasurer.

Hamilton: Canada.

Constructors of

Railway and Highway Bridges

of Every Size and Design, and all kinds of

Structural Work in steel and iron.
Observation and Water Towers.
Tanks, Caissons, Piers, Turntables,
Boilers, Buoys, Roofs, Girders
and Columns for Buildings, Inclines.

Every Facility for the Construction and Launching of Steel and Iron Ships.

.. REFERENCES ..

Grand Trunk Railway Co.

Canadian Pacific Railway Co.

Dominion and Ontario Governments,
and nearly all Municipalities and Contractors in the Dominion.

Dominion Bridge Co.

MONTREAL and LACHINE LUCKS, P.O.

Steel Bridges for Railways and Highways
Steel Piers and Trestles
Steel Water Towers and Tanks
Steel Roofs, Girders, Beams,
Columns for Buildings

A large stock of

ROLLED STEEL BEAMS, JOISTS, GIRDERS CHANNELS, ANGLES, TIES, Z BARS, AND PLATES

Always on hand

IN LENGTHS TO THIRTY-FIVE FEET

.....

Tables, giving sizes and strength of Rolled Steel Beams, on application.
Post Office Address, Montreal.

J. H. McGREGOR

AGENT

85 York Street

Toronto, Ont.

THE CENTRAL BRIDGE AND ENGINEERING COMPANY, Ltd., Capital Stock PETERBOROUGH, ONT. \$200,000.00.



Architectural Work, Forgings, and all kinds of General Engineering Work; also Law's Patent Surface Cattle Guards, and Law's Patent "Optimates" Power Hammers.

W. H. LAW, - - Engineer and Man. Director

LAMPS..=

Do You Ever Use Incandescent Lamps ?

If so, do you know what a good Lamp is? We can give you Lamps at all prices, and have the best Lamp made in the world; namely: the genuine "EDISWAN," in any candle power, from one to two thousand; to fit any base. Don't buy lamps until you get our quotations.

Frosted Lamps - Colored Lamps - Mogul Lamps

SEND US THAT RUSH ORDER

John Forman : 650 Craig Street.

..... MONTREAL.....

Agents....
Edison & Swan United Electric Co., and Hungarian Incandescent Lamp Co.

A. & E. LOIGNON

CIVIL ENGINEERS

And Builders of

BRIDGES AND IRON BUILDINGS

FOR MANUFACTURING PURPOSES

Structural Iron Material Kept In Stock Designs, estimates and specifications -

7 PLACE D'ARMES, MONTREAL

ELECTRICAL SUPPLIES_

Do not fail to write for Prices and Quotations on all kinds of Electrical Supplies.

We carry the largest stock of high-class fittings for Electrical Work in Canada.

Fancy Porcelain Cut-Outs,
Rosettes, Wall Plugs,
Switches, Brackets. Etc.

Have you tried the I.R.G.P. Wire? We guarantee our wire to have a higher insulation resistance than any wire in Canada.

Write for Prices on all Supplies required.

Send us that "rush" order.

John Forman 650 Craig Street • Montreal

Agent....
For Crompton Howell Battery Co., Ediswan United Electric.
Co. and the India Rubber, Gutta Percha and Telegraph.
Works Co.

Railway and Contractors'

SUPPLIES

TO C. & J. BROWN NNFG. CO. (Ltd.)

BELLEVILLE ONT.

Bridge Builders, Engineers, Boiler Makers, Machinists and Foundrymen

MANUFACTURERS OF

Frogs Diamond Grossings, Switches, Nand Cars, Lurries, Volcolpede Cars, Jim Grows, Track Drills, Semapheres, Rail Cars, Bouble and Single Orum Noists, Etc.

The Canadian Rand Drill Co., AIR COMPRESSORS

SHERBROOKE, QUE.

Of the Most Efficient and Economical Type— Straight Line, Duplex. Compound and Condensing

The Rand "Slugger" and "Giant" Air Drills

For Mines and Quarry Work,

SEND FOR CATALOGUE

16 VICTORIA SQUARE, MONTREAL HALIFAX HOTEL, HALIFAX, N. S.

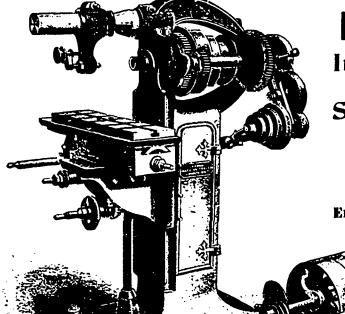
Duplex Compound Steam Air Compressor with Halsey's Mechanical Valves

AGENCIES:

632 CORDOVA STREET, VICTORIA, B. C.

if Contemplating transmission of power any considerable distance write to us for estimates.





Machinery and Power Iron Working Machinery.

Wood Working Machinery. Saw Mill Machinery. Shingle Mill Machinery.

Veneer Mill Machinery. Mining Machinery.

Engines and Boilers, Motors and Dynamos, Fans, Blowers and Dry-Kilns.

MILL SUPPLIES OF EVERY DESCRIPTION

Office and Works:

Soho Machine Works, TORONTO, Ont.

Branch Warehouse

305 St. James St., MONTREAL, Que.

Jno.Bertram & Sons

CANADA TOOL WORKS

Dundas

Ont.

Have in stock, for immediate delivery, the following list of New and Second-Hand Tools.

Break Lathe, 5 ft. x 42 in. x 12 ft. Sliding Bed, machine very powerful. Gap Lathe, 42 in. x 26 in. x 20 ft. Bed, Hollow Spindle, Chuck, Shaft Attachment complete.

Engine Lathe, 28 in x 12 ft bed, Rod Screw Feed " 24 in x 12 ft " complete 44 " 24 in x 16 ft " 66 20 in x 10 ft " 44 16 in x 10 ft Screw Feed 16 in x 8 ft " complete 16 in x 6 ft " Planing Machine, 36 in x 36 in x 12 ft, our latest design " 30 in x 30 in x 8 ft, our make " 30 in x 24 in x 8 ft, our latest design 46 30 in x 30 in x 8 ft, our latest design 66 24 in x 24 in x 6 ft, American

Shaping Machine, 24 in single, our latest design Universal Radial Drill, 72 in arm Radial Drill, 60 in arm Drilling Machines, 20 in, 22 in, 25 in, 32 in Acme Bolt Cutter, cut up to 11/2 in, complete Universal Milling Machine, 17 in table Piain Milling Machine, 24 in table Cutting Off and Centreing Machine, for 2! in bars Double Punch and Shear, 22 in throat, our latest design Automatic Steam Hammer, 2000 lbs

Shaping Machine, 12 in x 42 in double

THE

Imperial Oil Co.

(LIMITED)

Highest Awards at the World's Fair, Chicago,
—UPON—

Lubricating,

W.W. Illuminating Oils,

Parrafine Wax, Etc.

WE MANUFACTURE

All Grades of Cils, Greases, Soap Stocks, Candles, Wool Stocks, Leather and Tanners' Oils, Fuel Gas, Machinery, Cylinder Oils and solicit opportunity to compete against any Oil on the market.

Write for Prices and Samples.

THE-

IMPERIAL OIL CO.,

(Limited)

He / Office:

Petrolea, Canada.

BRANCHES.

Halifax, N. S. — Hamilton, Ont.
St. John, N. L. — Guelph, Ont.
Moncton, N. B. — Stratford, Ont.
Quebec, Que. — London, Ont.
Montreal, Que. — Chotham, Ont.
Kingston, Ont. — Windsor, Ont.
Toronto, Ont. — Winnibeg, Man.
Peterborough, Ont. — Vancouver, B. G.

Galvanized... Steel... Buckets...



Improved Pattern

Something entirely new, and superior to the old style buckets, made in three sizes.

They are superior to the ordinary flaring English bucket, being of greater capacity.

They are stronger in shape, consequently more durable.

They will not alop over, nor tip over, owing to the wide bottom.

They nest very close and firm, which protects them in shipping.

The rim it in one piece with the body, consequently cannot get knocked off.
They are galvanized, and not lead coated.

FOR BALE BY ALL WHOLEBALE HARDWARE AND THWARE HOUSES

Kemp-Mf'g Co.

Toronto, Ont.

=EAGLE BRAND THE BEST=

ROOFING

It is upprior to any other Roofing, and unequalled for House. Barn: Factory, or Out Buildings; it come half the price of chingles, the or iron; it is ready for use, and easily applied by anyone; it is the best Roofing in the market, in durability, to all others.

Send for estimates, and state size of roof.

... RUBBER PAINT ...

The best known Print in the world for Tin, Iron, or Shingle Roofs, Fonces, Sides of Barns and On Buildings. It costs only 60 cents per gallon, in barrel lots, or \$1.50 for \$5 gallon luit. Color dark red. It will stop trake in tin or iron roofs that will last for years. It is guaranteed hold peel, crack, with nor wash off, and is fire-proof against sparks. The XIII.

... SHEATHING PAPER

200 square feet, 43; keeps building cool in summer, warm in winter

EXCELSIOR PAINT AND ROOFING CO., "HE TO SANDE ST.

KERR & MORGAN

Montreal, Que.

MANUFACTURERS OF

ELEVATORS

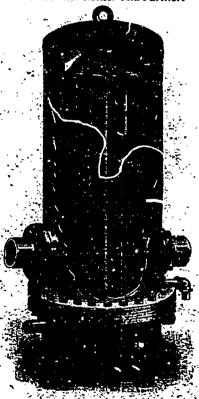
HYDRAULIC, BELT POWER, ELECTRIC

HAND ELEVATORS

Passenger and Freight Service

General . . Machinery

The Jacobs Patent Water Tube Food Water Heater and Purifier.



GREAT EFFICIFICY, SIMPEIGITY OF CONSTRUCTION and LOW COST. Has a Cast Iron shell, which will never wear out, with seamless drawn brass tubes expanded into tube-plates at top and bottom, with double blow-off.

The tubes being surriounted by a cap forming a chamber at the top, and being fastened rigidly only to the lower tube plate, free playis given for expansion, thereby preventing rupture and leakage of joints.

CHAS. JACOBS & CO.
47 Oliver Street. Boston, Mass.

IT LEADS THEM ALL

THE OLDEST THE LARGEST THE SAFEST THE CHEAPEST

Canadian Life Assurance Co. is

The CANADA LIFE ASSURANCE CO.

Capital and Funds over \$13,000,000

WRITE FOR PROSPECTUS

G. RAMSAY.

GEO. A. & E. W. COX.

President.

M'gra for Toronto and Eastern Ont.

Established 1872

Accident Insurance Company

- THE - - -

OF NORTH AMERICA

NEW FEATURE..

JOINT INSURANCE FOR PARTNERSHIPS

Important to Manufacturing Firms.

JONES, Coneral Agents

MAIL BUILDING, TORONTO.

.. THE EMPLOYERS' LIABILITY POLICY...

Nanufacturers Accident Insurance Company

... IS THE MOST SATISFACTORY POLICY ISSUED ...:

This policy will cover Employees wherever engaged in the business. If their employer, the Employer being at liberty to change his workmen or their number, or their wages, without notice to the Company.

... OET THE BEST ...

THE MANUFACTURERS ACCIDENT INSURANCE COMPANY makes a specialty of Employers' Liability Insurance and issues the most liberal and straightforward policy contract possible. Write for rates and all particulars.

Head Office: TORONTO.

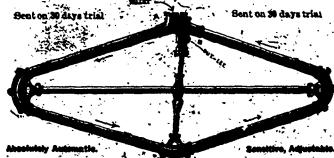
GEO. GOODERHAM, President.

the Ständard Drain Pipe Co., St. John's, P.Q.

Manufacturers of Salt Stared Vitrified Sou se. leverts, Vertis, and all kinds of Fire

of Brain Pipe So., of St. John's, P.S., (Ltd.) W. C. TROTTER, President

REHM'S DUPLEX STEAM

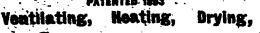


28 AND 30 DALHOUSIE ST., TORONTO, ONT PINE BRASS CASTINGS. A Trial Order Bolloffed

Mr. J. D. McEachren, Galt.

J. D. MCEACHREN

McEachren's Improved Fan



Specially adapted to

HEAVY WORK

Will handle more air at a GIVEN PRISS. URE with a GIVEN POWER than any

Forparticulars address

GALT, Ont.

Rockwood, March 16th, 18c;

Mr. J. D. McLachren, Cart.

Dear Sir,—In reference to the Drying and Ventilating Fans that you put in last fall they are working well, keeping the rooms dry and comfortable. The wool dries with cold water coil; is drying to to foolbs, of wool per day, WITHOUT HYDRO, EXTRACTOR, on 6 x 12 feet of netting. If the room, was larger, we are sure that the cap, ity would be much increased. The Fan in end of dye house keep, the steam, well drawn off, and the alterations on cloth drier have ended us to dry more than double the goods than me could formerly would make special note of the small amount of power required.

Yours truly, HARRIS & Co.

FUEL OIL APPLIANCES

HAPROVED DUPLEX SYSTEM, for

Annealing, Forging, Enamelling, Welding, Melting, Brazing and Heating Generally

FURNACES DESIGNED AND BUILT FOR EYERY PURPOSE. ESTIMATES MADE, AND WORKS EQUIPPED COMPLETE.

W. S. ROCKWELL,

Constructing Engineer New York

THE BELL ORGAN AND PIANO CO., LIMITED

cabinet and church Pipe Organs

Factories and Offices:

... MANUPACTURERS OF ...
THE CELEBRATED

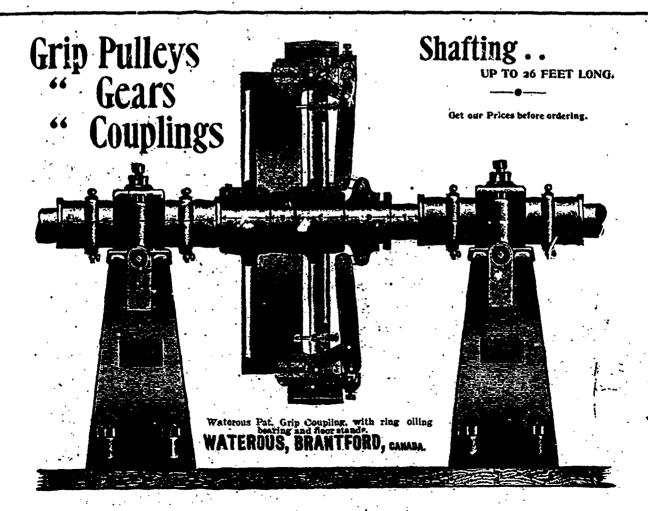
BELL

GUELPH, ONT.

UPRIGHT

Grand Pianos

Send for Catalogues



Bellhouse, Dillon&Co.

30 ST. FRANCOIS XAVIER St. MONTREAL

CHEMICALS DYE STUFFS

ACIDS

AGENTS FOR The UNITED ALKALI Co's VARIOUS BRANDS OF

ALSO
The Badische Anllin, Soda-Fabrik, .. ALIZARINES .. ANILINES AND COLORS.

BLEACHING POWDER



The Ontario Malleable Iron So.

MALLEABLE

IRON

Castings t Order for Kindson

AGRICULTULAL IMPLEMENT::

Miscellaneous

Purposes:::::

OSHAWA

SCALES

PLATFORM. DORMANT. ROLLING MILL HOPPER,

> COAL, Track Scales, Etc., Etc.

MANUFACTURED BY

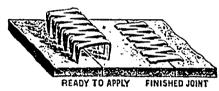
The Gurney Scale Co.

HAMILTON, ONT.

Write for Illis and Cateogue.

BRISTOL'S PATENT

Steel Belt Lacing



Greatly Reduced Prices

Is a grand success. Try it and see for yourself

Saves Time, Saves Belts, Saves Money SAMPLES SENT FREE

The BRISTOL CO.

Waterbury, Conn.

SMITH'S FALLS

Malleable..

Iron

Works..



ONT.

Capacity 2,000 Ton . .

WILLIAM H. FROST

Proprietor

SMITH'S FALLS : Ontario, Can.

Cowan & Co., Galt, Ont.

Manufacturers of

CORLISS ENGINES, SLIDE VALVE ENGINES

Boilers and Wood=Working Machinery Of Every Description...

Send for our Illustrated Catalogue.



THE ASBESTOS WAREHOUSE

Magnosia and Asbestos Removable Covering, Asbestos, Mill Boa Packing and Building Felt, Cotton Waste, Oils and Lubricating Co 42 44 46 FOUNDLING ST WIM COLAYED &